ENGINEERING EDUCATION

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MEMBERSHIP AND DUTIES OF COMMITTEES OF THE SOCIETY.

In order that the work of the Society may be continuous and progressive a large part of it is conducted by committees under the direction of the Committee on Committees. The specific work assigned to certain committees for the present year is given in connection with the respective committees.

Members having matters they desire to take up with any chairman are invited to correspond directly with him.

1. **Executive Committee:** C. F. Scott, *Chairman,* Yale University, New Haven, Conn.; W. O. Wiley and F. L. Bishop.
2. **Publication Committee:** C. F. Scott, *Chairman,* M. E. Cooley and F. L. Bishop.
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7. **Institutional Committee:** H. J. Hughes, *Chairman,* Harvard University, Cambridge, Mass.
8. **Committee on Admission:** O. J. Ferguson, *Chairman,* University of Nebraska, Lincoln, Neb.; L. L. Thurstone, L. P. Rondinella, C. E. Magnusson.

   Study of the methods of admission to engineering schools including European schools.
9. **Committee on Production Engineering:** John Airey, *Chairman,* University of Michigan, Ann Arbor, Mich.; W. H. Timbie, H. L. McGregor, B. W. Benedict, Hugo Diemer.
10. **Committee on Mathematics:** E. R. Hedrick, *Chairman, University* of Missouri, Columbia, Mo.; E. V. Huntington, H. C. Van Buskirk. Coöperate with the National Committee on mathematical requirements under the auspices of the Mathematical Association of America.
11. **Committee on Chemistry: Joint Committee American Chemical Society:** S. P. E. E. R. M. Bird, *Chairman,* University of Virginia, University, Va.; J. H. James and J. R. Withrow.
12. **Committee on English:** J. Raleigh Nelson, *Chairman,* University of Michigan, Ann Arbor, Mich.; W. O. Birk, F. E. Seavey.
13. **Committee on Physics:** W. S. Franklin, *Chairman,* Mass. Inst. of Tech., Cambridge, Mass.; G. W. Stewart, D. C. Miller. Coöperate with the teaching committee of the National Research Council and teaching committee of American Physical Society.

14. **Committee on Business Training:** Morris Knowles, *Chairman,* Jones Law Bldg., Pittsburgh, Pa.; A. B. McDaniel, P. F. Walker, W. E. Wickenden and W. E. Mott.
15. **Committee on Civil Engineerng:** A. H. Blanchard, *Chairman,* University of Michigan, Ann Arbor, Mich.; Brig. Gen. C. H. Mitchell, H. S. Boardman, H. J. Hughes, Frederick Bass.
16. **Committee on Mechanical Engineering:** Wm. T. Magruder, *Chairman,* The Ohio State University, Columbus, O.; Walter Boyle and F. C. Wagner.

    A study of the relative amount of time given to prime movers.
17. **Committee on Electrical Engineering:** H. E. Dyche, *Chairman,* University of Pittsburgh, Pittsburgh, Pa.; W. H. Timbie, F. A. Fish and T. R. Rosebrugh.
18. **Committee on Mining Engineering:** J. B. Porter, *Chairman,* McGill University, Montreal, Canada.
19. **Committee on Drawing:** R. S. Kirby, *Chairman,* Yale University, New Haven, Conn.; T. E. French, W. N. Barnard, E. C. Chillman.
20. **Committee on Standardization of Technical Nomenclature:** J. T. Faig, *Chairman,* Ohio Mechanics Institute, Cincinnati, Ohio; W. D. Ennis, S. E. Moss, R. L. Daugherty, J. E. Emswiler.
21. **Committee on R. O. T. C.:** P. F. Walker, *Chairman,* University of Kansas, Lawrence, Kans.; C. R. Mann, Anson Marston.
22. **Committee on Intelligence Tests:** L. L. Thurstone, *Chairman,* Carnegie Institute of Technology, Pittsburgh, Pa.; Wm. T. Magruder, C. R. Dooley.
22. **Committee to Coöperate with National Engineering Societies:** Ira N. Hollis, *Chairman,* A.S.M.E., Worcester Polytechnic Institute, Worcester, Mass.; D. C. Jackson, A.I.E.E.; J. C. Tracy, A.S.C.E., F. W. McNair, A.I.M. & M.E.
23. **Committee on Licensing Engineers:** Chas. S. Howe, *Chairman.*
24. **Committee on Engineering Experiment Stations:** C. S. Howe, *Chairman,* Case School of Applied Science, Cleveland, Ohio; P. F. Walker, F. L. Bishop, R. H. Fernald, J. F. Hayford.

OFFICERS 1921–1922.

President.

CHAS. F. SCOTT, New Haven, Conn.

Vice-Presidents.

H. J. HUGHES, Cambridge, Mass., E. J. MCCAUSTLAND, Columbia, Mo.

Secretary.

F. L. BISHOP, Pittsburgh, Pa.

Treasurer.

W. O. WILEY, New York City.

COUNCIL.

I. Elective Members.

Terms expire in 1922.

H. S. Boardman, Orono, Me.
F. C. Bolton, College Station, Tex.
E. F. Coddington, Columbus, Ohio.
W. H. Kavanaugh, Philadelphia, Pa.
C. C. More, Seattle, Wash.
E. H. Rockwell, Tufts College, Mass.
W. S. Rodman, University, Va.

Terms expire in 1923.

J. F. Merrill, Salt Lake City, Utah.
W. H. Timbie, Cambridge, Mass.
R. S. King, Atlanta, Ga.
J. H. Felgar, Norman, Okla.
L. L. Thurstone, Pittsburgh, Pa.
C. C. Williams, Lawrence, Kans.
J. C. Tracy, New Haven, Conn.

Terms expire in 1924.

P. H. Daggett, Chapel Hill, N. C.
J. H. Dunlap, Iowa City, Iowa.
M. L. Enger, Urbana, Ill.
J. C. L. Fish, Stanford University, Calif.
F. E. Giesecke, Austin, Tex.
Morris Knowles, Pittsburgh, Pa.
O. M. Leland, Minneapolis, Minn.

II. Past Presidents—Members Ex-Officio.

G. F. Swain, Cambridge, Mass.
Mansfield Merriman, New York, N. Y.
T. C. Mendenhall, Ravenna, O.
Ira O. Baker, Urbana, Ill.
C. Frank Allen, Boston, Mass.
F. W. McNair, Houghton, Mich.
D. C. Jackson, Cambridge, Mass.
Chas. S. Howe, Cleveland, O.
F. E. Turneaure, Madison, Wis.
H. S. Munroe, Litchfield, Conn.
A. N. Talbot, Urbana, Ill.
W. G. Raymond, Iowa City, Ia.
W. T. Magruder, Columbus, O.
G. C. Anthony, Tufts College, Mass.
Anson Marston, Ames, Ia.
Henry S. Jacoby, Ithaca, N. Y.
G. R. Chatburn, Lincoln, Nebr.
Milo S. Ketchum, Philadelphia, Pa.
John F. Hayford, Evanston, Ill.
Arthur M. Greene, Jr., Troy, N. Y.
Mortimer E. Cooley, Ann Arbor, Mich.

LIST OF INSTITUTIONAL MEMBERS.

Municipal University of Akron, College of Engineering, Akron, O., Parke R. Kolbe, President 1914

Alabama Polytechnic Institute, Auburn, Ala., Spright Dowell, President 1914

University of Arizona, Tucson, Ariz., von KleinSmid, President 1914

University of Arkansas, Fayetteville, Ark., John C. Futrall, President 1921

Armour Institute of Technology, Chicago, Ill., H. M. Raymond, President 1921

Polytechnic Institute of Brooklyn, Brooklyn, N. Y., Fred W. Atkinson, President 1921

Brown University, Providence, R. I., W. H. P. Faunce, President. 1914

University of California, Berkeley, Calif., David P. Barrows, President 1913

California Institute of Technology, Pasadena, Calif., Robert A. Millikan, Chairman, Executive Council 1913

Carnegie Institute of Technology, Pittsburgh, Pa., A. A. Hamerschlag, President 1915

Case School of Applied Science, Cleveland, O., Chas. S. Howe, President 1913

Catholic University of America, Washington, D. C., Thomas J. Shahan, Rector 1917

University of Cincinnati, Cincinnati, O., Frederick C. Hicks, President 1917

The Citadel, The Military College of South Carolina, Charleston, S. C., O. J. Bond, President 1914

Clemson College, Clemson College, S. C., W. M. Riggs, President. 1913

University of Colorado, Boulder, Colo., George Norlin, President. 1915

Cornell University, Ithaca, N. Y., Livingston Farrand, President. 1913

University of Delaware, Newark, Del., Walter Hullihen, President 1916

Doherty Training School, Toledo, O., H. L. Doherty, President. 1918

Drexel Institute, Philadelphia, Pa., K. G. Matheson, President.. 1914

Ecole Polytechnique, Montreal, Canada, A. Lynn, Director..... 1917

The George Washington University, Washington, D. C., Howard L. Hodgkins, President 1913

Georgia School of Technology, Atlanta, Ga. 1913

The Harvard Engineering School, Harvard University, Cambridge, Mass., H. J. Hughes, Dean 1919

INSTITUTIONAL MEMBERS.

Iowa State College, Ames, Ia., Raymond A. Pearson, President. 1913
State University of Iowa, Iowa City, Ia., Walter A. Jessup, President 1914
Johns Hopkins University, Baltimore, Md., Frank J. Goodnow, President 1921
Kansas State Agricultural College, Manhattan, Kans., Wm. Marion Jardine, President..... 1915
The University of Kansas, Lawrence, Kans., Ernest H. Ludley, Chancellor 1914
Lafayette College, Easton, Pa., J. H. MacCracken, President... 1915
Lehigh University, South Bethlehem, Pa. 1914
University of Maine, Orono, Me., Robt. J. Aley, President..... 1917
Marquette University, Milwaukee, Wis., Herbert C. Noonan, President 1919
Massachusetts Institute of Technology, Cambridge, Mass., Elihu Thompson, Acting President..... 1918
Miami University, Oxford, O., Raymond M. Hughes, President... 1913
Michigan College of Mines, Houghton, Mich., F. W. McNair, President 1914
University of Michigan, Ann Arbor, Mich., Marion LeRoy Burton, President 1913
University of Minnesota, Minneapolis, Minn., Lotus D. Coffman, President 1919
University of Missouri, Columbia, Mo., A. Ross Hill, President.. 1914
University of Nebraska, Lincoln, Nebr., Samuel Avery, Chancellor 1914
College of Engineering of the Newark Technical School, Newark, N. J., Allan R. Cullimore, Director 1922
New Mexico College of A. & M. Arts, State College, N. M. G. E. Ladd, President 1917
New York, College of the City of, New York City, Sidney E. Mezes, President 1921
New York University, New York, N. Y., Elmer E. Brown, Chancellor 1913
University of North Carolina, Chapel Hill, N. C., Harry Woodburn Chase, President..... 1907
North Carolina State College of Agriculture and Engineering, State College Station, Raleigh, N. C., W. S. Riddick, President 1920
North Dakota, University of, University, N. D., Thos. F. Kane, President 1913
Northeastern College, Boston, Mass., Frank P. Speare, President 1921

INSTITUTIONAL MEMBERS.

University of Notre Dame, Notre Dame, Ind., James A. Burns, President 1913

Ohio State University, The, Columbus, O., Wm. O. Thompson, President 1921

State University of Oklahoma, Norman, Okla., Stratton D. Brooks, President 1913

Oregon Agricultural College, Corvallis, Ore., W. J. Kerr, President 1917

The Pennsylvania State College, John M. Thomas, President, State College, Pa. 1914

Towne Scientific School, University of Pennsylvania, Philadelphia, Pa., John Frazer, Dean 1914

University of Pittsburgh, Pittsburgh, Pa., John G. Bowman, Chancellor 1913

University of Porto Rico, San Juan, P. R., Juan B. Huyke, Chancellor 1920

Princeton University, Princeton, N. J., Arthur M. Greene, Jr., Dean 1922

Purdue University, LaFayette, Ind. 1915

Rensselaer Polytechnic Institute, Troy, N. Y., Palmer C. Ricketts, Director 1922

Rhode Island State College, Kingston, R. I., Howard Edwards, President 1913

Rose Polytechnic Institute, Terre Haute, Ind., Philip B. Woodworth, President 1916

Rutgers College, New Brunswick, N. J., W. H. S. Demarest, President 1914

Sheffield Scientific School of Yale University, New Haven, Conn., R. H. Chittenden, Director 1917

University of South Carolina, Columbia, S. C., W. S. Currell, President 1914

Stanford University, Stanford University, Calif., Ray Lyman Wilbur, President 1917

Stevens Institute of Technology, Hoboken, N. J., A. C. Humphreys, President 1913

Swarthmore College, Swarthmore, Pa., Frank Aydelotte, President 1921

Syracuse University, Syracuse, N. Y., James R. Day, Chancellor. 1913

Tennessee University, Knoxville, Tenn., Harcourt A. Morgan, President 1921

A. & M. College of Texas, College Station, Tex., Wm. Bennet Bizzell, President 1916

University of Texas, Austin, Tex., Robert E. Vinson, President.. 1919

INSTITUTIONAL MEMBERS.

TOLEDO, UNIVERSITY OF THE CITY OF, Toledo, O., A. M. Stowe, President 1915

UNIVERSITY OF TORONTO, Toronto, Ont., Canada, R. A. Falconer, President 1917

TULANE UNIVERSITY, New Orleans, La., Albert B. Dinwiddie, President 1921

TUFTS COLLEGE, Tufts College, Mass., John Albert Cousens, President 1914

UNION UNIVERSITY, Schenectady, N. Y., Charles A. Richmond, Chancellor 1921

UNIVERSITY OF UTAH, Salt Lake City, Utah, George Thomas, President 1914

VANDERBILT UNIVERSITY, Nashville, Tenn., J. H. Kirkland, Chancellor 1914

UNIVERSITY OF VERMONT, Burlington, Vt., Guy W. Bailey, President 1915

VILLANOVA COLLEGE, Villanova, Pa., Francis A. Driscoll, President. 1921

UNIVERSITY OF VIRGINIA, University, Va., Edwin A. Alderman, President 1915

WASHINGTON UNIVERSITY, St. Louis, Mo., Frederic A. Hall, Chancellor 1914

UNIVERSITY OF WASHINGTON, Seattle, Wash., Henry Suzzallo, President 1913

WENTWORTH INSTITUTE, Boston, Mass., A. L. Williston, Principal. 1917

UNIVERSITY OF WISCONSIN, Madison, Wis., Edward A. Birge, President 1914

WORCESTER POLYTECHNIC INSTITUTE, Worcester, Mass., Ira N. Hollis, President 1913

LIST OF INDIVIDUAL MEMBERS.

Revised to March 1st, 1922.

ABBOTT, ROBINSON, Instructor in Civil Engineering, Tufts College, Tufts College, Mass. 1919

ADAMS, COMFORT, A., Abbott and James Lawrence Professor of Engineering, Harvard Engineering School, Cambridge, Mass.. 1894

ADAMS, EDWARD L., Associate Professor of Romance Languages, University of Michigan, Ann Arbor, Mich. 1921

ADAMS, FRANK D., Faculty of Applied Science, McGill University, Montreal, Canada 1909

ADAMS, F. J., Assistant Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1912

AIREY, JOHN, Professor of Engineering Mechanics; Acting Supt. Engineering Shops, University of Michigan, Ann Arbor, Mich. 1920

AKELEY, L. E., Dean of the College of Engineering and Professor of Physics, University of South Dakota, Vermilion, S. D..... 1910

ALDEN, C. R., Dean, College of Engineering, Ohio Northern University, Ada, O. 1921

ALDEN, GEORGE IRA, Chairman, Board of Directors, Norton Company, 48 Queen Street, Worcester, Mass. 1919

ALDRICH, WM. S., American Bridge Co., M. M. Dept., Gary Plant; Mgr., American Engineering Agency, 122 So. Michigan Ave., Chicago, Ill. 1893

ALEXANDER, MAGNUS W., Consulting Engineer, General Electric Co., Managing Director, National Industrial Conference Board, New York City 1911

ALLEN, C. F., Retired, 88 Montview St., West Roxbury, Mass. 1893

ALLEN, CHESTER, Assistant Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1917

ALLEN, C. M., Professor of Hydraulic Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1903

ALLEN, F. G., Associate Professor of General Engineering Drawing, University of Colorado, Boulder, Colo. 1913

ALLISON, W. F., Professor of Municipal and Highway Engineering, University of Washington, Seattle, Wash. 1915

ANDERSON, A. H., Assistant Professor of Steam and Gas Engineering, University of Wisconsin, Madison, Wis. 1910

ANDERSON, D. S., Professor of Electrical Engineering, Dean of the College of Engineering, Tulane University, New Orleans, La... 1900

LIST OF MEMBERS.

ANDERSON, F. PAUL, Dean of the College of Mechanical and Electrical Engineering, Professor of Mechanical Engineering and Director of the Experiment Engineering Laboratories, University of Kentucky, Lexington, Ky. 1894

ANDERSON, STEWART W., Associate Professor of Electrical Engineering, Virginia Military Institute, Lexington, Va. 1921

ANDERSON. WILLIAM, Box 74, Kingston, R. I. 1910

ANDROS, S. O., Editor, *Oil News*, 910 So. Michigan Boulevard, Chicago, Ill. 1913

ANGEL, WM. P., Assistant Professor of Physics, Tulane University, New Orleans, La. 1914

ANTHONY, G. C., Professor of Graphics and Dean of the Engineering School, Tufts College, Tufts College, Mass. 1896

APPLEBY, W. R., Director, Mines Experiment Station; Consulting Metallurgist, U. S. Bureau of Mines, Minneapolis, Minn. 1913

ARCHIBALD, FRANK, Instructor in Mechanical Engineering, Rhode Island State College, Kingston, R. I. 1922

ARCHIBALD, LEON, Instructor in Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1919

ARKLEY, L. M., Assistant Professor of Mechanical Engineering, University of Toronto, Toronto, Canada 1908

ARMS, RAY W., Assistant Professor, University of Illinois, Urbana, Ill. 1922

ARMSBY, HENRY H., Associate Professor of Civil Engineering, Student Advisor, Missouri School of Mines and Metallurgy, Rolla, Mo. 1917

ARMSTRONG, GEORGE E. W., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1922

ARNOLD, BION J., Consulting Electrical Engineer, 105 S. La Salle St., Chicago, Ill. 1906

ASHTON, C. H., Professor of Mathematics, University of Kansas, Lawrence, Kans. 1915

ATKINSON, F. W., President of the Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1905

ATKINSON, THOS. W., Dean of the College of Engineering, Louisiana State University, Baton Rouge, La. 1907

AUSTIN, F. E., Professor of Physics and Mathematics, Clark School, Hanover, N. H. 1912

AVRAM, M. H., Lecturer on Industrial Engineering, New York University, New York, N. Y. 1918

AYDELOTTE, FRANK, President, Swarthmore College, Swarthmore, Pa. 1915

LIST OF MEMBERS.

AYER, FRED. E., Dean College of Engineering and Commerce, and Professor of Civil Engineering, Municipal University of Akron, Akron, O. 1907

AYRES, FRANKLIN H., Professor of Physics, Junior College of Kansas City, Kansas City, Mo. 1918

BABBITT, HAROLD E., Assistant Professor of Sanitary Engineering, University of Illinois, Urbana, Ill. 1922

BABCOCK, E. J., Dean of the College of Engineering, Professor of Industrial Chemistry, Mining and Metallurgy and Director of Experimental Engineering Stations, University of North Dakota, Grand Forks, N. D. 1907

BACON, G. M., Civil Engineer, 311 Newhouse Bldg., Salt Lake City, Utah 1907

BACON, GEORGE P., Professor of Physics, Tufts College, Tufts College, Mass. 1922

BAENDER, F. G., Professor of Heat Power Engineering, Supt., Mechanic Arts, State University of Arkansas, Fayetteville, Ark... 1917

BAILEY, BENJ. F., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1920

BAILEY, JOHN B., Instructor in Electrical Design, Purdue University, La Fayette, Ind. 1922

BAKER, CECIL F., Professor of Architecture, Kansas State Agricultural College, Manhattan, Kans. 1917

BAKER, IRA O., Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1893

BAKER, RAY P., Professor of English, Rensselaer Polytechnic Institute, Troy, N. Y. 1919

BALL, ALBERT, Professor of Physics, Cooper Union, New York, N. Y. 1908

BALL, THEODORE R., Associate Professor of Chemistry, Washington University, St. Louis, Mo. 1922

BANGRATZ, ERNEST G., Assistant, Electrical Engineering Dept., Massachusetts Institute of Technology, Cambridge, Mass. ... 1922

BARBA, C. E., Supt. Mobile Shops, Watertown Arsenal, Watertown, Mass. 1915

BARK, ELMER, Combustion Engineer, Bureau of Water, Philadelphia, Pa. 1912

BARNARD, W. N., Professor of Power Engineering, Cornell University, Ithaca, N. Y. 1910

BARNES, F. A., Director, School of Civil Engineering, Professor of Railroad Engineering, Cornell University, Ithaca, N. Y. 1904

BARNEY, EDGAR S., Principal, Hebrew Technical Institute, 36 Stuyvesant St., New York, N. Y. 1912

LIST OF MEMBERS.

BARNEY, S. E., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1894

BARROWS, H. K., Professor of Hydraulic Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1902

BARROWS, W. E. JR., Professor of Electrical Engineering, University of Maine, Orono, Me. 1908

BARTHOLOMEW, H. C., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915

BARTOW, EDWARD, Professor and Head, Department of Chemistry, State University of Iowa, Iowa City, Ia. 1921

BASHIOUM, HARRISON C., Professor and Head, Dept. of Chemical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1920

BASQUIN, O. H., Professor of Applied Mechanics, Northwestern University, Evanston, Ill. 1908

BASS, FREDERIC, Professor of Municipal and Sanitary Engineering, University of Minnesota, Minneapolis, Minn. 1904

BASSETT, WM. A., Staff Engineer, New York Bureau of Municipal Research, New York City 1921

BATES, ONWARD, Civil Engineer, 332 S. Michigan Ave., Chicago, Ill. 1903

BAUER, F. S., Associate Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1914

BAUER, W. C., Professor of Electrical Engineering, Northwestern University, Evanston, Ill. 1910

BEACH, ROBIN, Acting Head, Dept. of Electrical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1917

BEALE, FRANK S., Instructor in Mathematics, University of Maine, Orono, Me. 1922

BEAVER, J. L., Assistant Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1914

BECKER, LEWIS M., Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. 1922

BECKWITH, WIGHTMAN S., Professor of Mathematics, Ohio Northern University, Ada, Ohio 1919

BEGGS, G. E., Associate Professor of Civil Engineering, Princeton University, Princeton, N. J. 1915

BELDEN, HENRY M., Professor of English, University of Missouri, Columbia, Mo. 1922

BENEDICT, BRUCE W., Manager, Shop Laboratories, University of Illinois, Urbana, Ill. 1912

BENEDICT, H. G., 2269 Grandview Ave., Cleveland, O. 1913

BENEDICT, H. Y., Professor of Applied Mathematics and Dean of the College of Arts and Sciences, University of Texas, Austin, Texas 1906

LIST OF MEMBERS.

BENKERT, H. N., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1909

BENNETT, EDW., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1909

BENTON, J. R., Professor of Physics and Electrical Engineering, and Dean of the College of Engineering, University of Florida, Gainesville, Fla. 1905

BENZENBERG, G. H., Consulting Civil Engineer, Retired, 255 Greenbush St., Milwaukee, Wis. 1907

BERARD, S. J., Assistant Professor of Drawing and Machine Design, Brown University, Providence, R. I. 1912

BERENTS, H., Consulting Civil Engineer, 12 French Bund, Shanghai, China 1911

BERG, E. J., Professor of Electrical Engineering, Union University, Schenectady, N. Y. 1910

BERRY, H. C., Professor of Materials of Construction, University of Pennsylvania, Philadelphia, Pa. 1916

BERRY, W. J., Associate Professor of Mathematics, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

BEVAN, W. A., Capt. A. S., Rockwell Field; Chief, Engineering Division, Coronado, Calif. 1915

BHOLE, V. R., P. O. Box 98, Berkeley, Calif. 1921

BIBBER, HAROLD W., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

BIKLE, J. S., Instructor in Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1918

BILLINGS, J. HARLAND, Professor of Mechanical Engineering, Drexel Institute, Philadelphia, Pa. 1919

BILLMYER, CARROLL D., Associate Professor of Mechanics and Drawing, Georgia School of Technology, Atlanta, Ga. 1917

BIRD, H. C., Professor of Civil Engineering, Pennsylvania Military College, Chester, Pa. 1914

BIRD, R. M., Professor of Chemistry, University of Virginia, University, Va. 1915

BIRD, WM. W., Professor of Mechanical Engineering, and Director of the Washburn Shops, Worcester Polytechnic Institute, Worcester, Mass. 1910

BIRK, WILLIAM O., Assistant Professor of English, University of Colorado, Boulder, Colo. 1920

BISHOP, C. T., Assistant Professor of Structural Engineering, Yale University, New Haven, Conn. 1912

BISHOP, F. L., Dean School of Engineering, Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1907

LIST OF MEMBERS.

BISSELL, G. W., Dean of Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

BITTING, H. S., President of the Williamson Free School of Mechanical Trades, Williamson School, Delaware Co., Pa. 1909

BLACK, R. M., Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1912

BLAISDELL, A. H., Assistant Professor of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

BLAKE, FREDERIC C., Professor of Physics, The Ohio State University, Columbus, O. 1918

BLAKESLEE, D. W., Dunham Laboratory of Electrical Engineering, Yale University, New Haven, Conn. 1914

BLALOCK, GROVER C., Assistant Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1918

BLANCHARD, A. H., Professor of Highway Engineering and Highway Transport, University of Michigan, Ann Arbor, Mich. ... 1902

BLAND, J. C., Engineer of Bridges and Buildings, Pennsylvania System, No. 729 Penna. Station, Pittsburgh, Pa. 1911

BLISS, COLLINS P., Professor of Mechanical Engineering, New York University, University Heights, New York City 1915

BLUMBERG, LEO, Assistant Professor of Mechanical Engineering, University of Delaware, Newark, Del. 1922

BLUME, L. F., Electrical Engineer, General Electric Co., Pittsfield, Mass. 1911

BOARDMAN, H. P., Professor of Civil Engineering, Director, Engineering Experiment Station, University of Nevada, Reno, Nev. 1914

BOARDMAN, H. S., Dean of the College of Technology and Professor of Civil Engineering, University of Maine, Orono, Me. 1903

BOERCHEL, W. H., Instructor in Mathematics, Georgia School of Technology, Atlanta, Ga. 1919

BOEHNLEIN, CHARLES, Instructor in Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

BOGARD, FRANK, Supt. Mechanical and Electrical Engineering Courses, Louisiana Industrial Institute, Ruston, La. 1914

BOGGS, GILBERT H., Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1919

BOLTON, F. C., Professor of Electrical Engineering, A. and M. College of Texas, College Station, Texas 1910

BOOMSLITER, G. P., Professor of Mechanics, West Virginia University, Morgantown, W. Va. 1912

BOON, LEONARD, Instructor in Civil Engineering, University of Minnesota, Minneapolis, Minn. 1922

BOOTHROYD, S. L., Professor of Astronomy and Geodesy, Cornell University, Ithaca, N. Y. 1908

BOREMAN, R. W., Assistant Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1919

BOSTON, ORLAN W., Assistant Professor of Shop Practice, University of Michigan, Ann Arbor, Mich. 1921

BOUCHARD, HARRY, Assistant Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1921

BOWERMAN, M. R., Checker, Alliance Machine Co., Alliance, O. 1909

BOWMAN, HARRY L., Assistant Professor of Structural Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

BOYD, ALFRED, University of North Dakota, Grand Forks, N. D... 1909

BOYD, J. E., Professor of Mechanics, The Ohio State University, Columbus, O. 1907

BOYER, F. Q., National Industrial Conference Board, 703 Southern Building, Washington, D. C. 1912

BOYLE, A. C., JR., 162 No. 9th St., Laramie, Wyo. 1911

BOYLE, WALTER W., Assistant Professor of Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1921

BOYLSTON, H. M., Professor of Metallurgy, in charge of Dept. of Metallurgical and Mining Engineering, Case School of Applied Science, Cleveland, O. 1921

BOZELL, H. V., 10th Ave. at 36th St., New York City 1912

BRACKETT, B. B., Professor of Electrical Engineering, South Dakota State College of A. and M. Arts, Brookings, S. D. 1906

BRACKETT, ELMER E., Professor of Agricultural Engineering, Engineering Dept., College of Agriculture, Lincoln, Neb. 1920

BRADFORD, J. N., Professor of Architecture and University Architect, The Ohio State University, Columbus, O. 1896

BRAGG, EDWARD M., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich. 1920

BRANCH, T. P., Professor of Civil Engineering, Georgia School of Technology, Atlanta, Ga. 1919

BRANDES, FRED C., Instructor in Drawing and Civil Engineering, Catholic University of America, Washington, D. C. 1920

BRASEFIELD, S. E., Professor of Applied Mathematics, Rutgers College, New Brunswick, N. J. 1916

BRAUNE, G. M., Assistant Professor of Civil Engineering, University of Cincinnati, Cincinnati, Ohio 1914

BRAUTLECHT, C. A., Professor of Chemistry, University of Maine, Orono, Me. .....

BRAY, H. C. C., Instructor to the Apprentices, Nova Scotia Steel and Coal Co., Ltd., New Glasgow, Nova Scotia, Canada 1916

BRECKENRIDGE, L. P., Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1893

LIST OF MEMBERS.

BREED, C. B., Professor of Railway and Highway Engineering, Massachusetts Institute of Technology, Cambridge, Mass. .. 1904

BRENNEMAN, JESSE L., Assistant Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans.... 1920

BRITTON, LAWRENCE, Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

BRODIE, HUGH, Assistant Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1915

BROOKE, W. E., Head of Department of Mathematics and Mechanics, College of Engineering, University of Minnesota, Minneapolis, Minn. 1902

BROOKS, J. ANSEL, 8 Belvidere Place, Montclair, N. J. 1904

BROOKS, J. P., President, Clarkson College of Technology, Potsdam, N. Y. 1898

BROOKS, MORGAN, Professor of Electrical Engineering, University of Illinois, Urbana, Ill. 1899

BROWN, A. I., Assistant Professor of Steam Engineering, The Ohio State University, Columbus, O. 1914

BROWN, CARROL G., Professor of Electrical Engineering, School of Engineering of Milwaukee, Milwaukee, Wis. 1914

BROWN, EDWARD C., Instructor in Mathematics, University of Maine, Orono, Me. 1922

BROWN, F. L., Associate Professor of Mechanics, University of Kansas, Lawrence, Kans. 1915

BROWN, HUGH A., Associate in Electrical Engineering, University of Illinois, Urbana, Ill. 1922

BROWN, J. M., Professor of Civil Engineering, University of South Dakota, Vermilion, S. D. 1916

BROWN, R. A., Assistant Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1917

BROWN, S. L., Associate Professor of Physics, University of Texas, Austin, Tex. 1914

BROWNE, WM. HAND, JR., Professor of Electrical Engineering, North Carolina College of A. and E., State College Station, Raleigh, N. C. 1899

BRYANS, W. R., Associate Professor of Mechanics and Machine Design, New York University, New York, N. Y. 1908

BRYANT, J. M., Professor of Electrical Engineering, University of Texas, Austin, Tex. 1910

BUCHANAN, ROY O., Associate Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1922

BUCHER, PAUL, Instructor in Mechanical Engineering, The Ohio State University, Columbus, O. 1920

BUCK, A. M., Consulting Engineer, Beeler Organization, 52 Vanderbilt Ave., New York, N. Y. 1910

BULGER, JOHN W., Instructor in Mathematics and Engineering, Municipal University of Akron, Akron, Ohio 1918

BULLOCK, W. E., Assistant Secretary, American Society of Mechanical Engineers, New York, N. Y. 1917

BUMP, M. R., Chief Engineer, Henry L. Doherty & Co., 60 Wall St., New York, N. Y. 1907

BURDEN, HARRY P., Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1921

BURGER, W. H., Professor of Civil Engineering, Northwestern University, Evanston, Ill. 1910

BURKHART, PAUL H., Instructor in Electrical Engineering, University of Illinois, Urbana, Ill. 1922

BURPEE, F. E., Professor of Mechanical Engineering, Bucknell University, Lewisburg, Pa. 1910

BURR, WM. H., Emeritus Professor of Civil Engineering, Columbia University, Consulting Engineer, 120 Broadway, New York, N. Y. 1893

BURSLEY, J. A., Professor of Mechanical Engineering, and Dean of Students, University of Michigan, Ann Arbor, Mich. 1910

BURT, H. J., Structural Engineer, Holabird & Roche, Architects, 1027 Elmwood Ave., Wilmette, Ill. 1910

BURTON, A. E., Professor of Topographical Engineering, in charge of Department of Drawing, Harvard Engineering School, Cambridge, Mass. 1904

BUTLER, G. M., Dean, College of Mines and Engineering, University of Arizona, Tucson, Ariz. 1916

BUTLER, JOE B., Instructor in Civil Engineering, Mo. School of Mines and Metallurgy, Rolla, Mo. 1922

BUTTERFIELD, A. D., Professor of Mathematics and Geodesy, University of Vermont, Burlington, Vt. 1908

BUTTERFIELD, THOMAS E., Associate Professor of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1920

CADE, CLAUDE M., Assistant Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1921

CALDERWOOD, JAS. P., Professor of Mechanical Engineering, charge Dept. of Steam and Gas Engineering, Kansas State Agricultural College, Manhattan, Kans. 1919

CALDWELL, EDWARD, Treasurer of the McGraw-Hill Book Co., Inc., 370 7th Ave., New York, N. Y. 1905

CALDWELL, F. C., Professor of Electrical Engineering, The Ohio State University, Columbus, O. 1897

CALLAN, J. A. C., Head Professor of Civil Engineering, Alabama Polytechnic Institute; State Highway Commissioner, Auburn, Ala. 1909

CALLAN, JOHN GURNEY, Professor of Industrial Management, Graduate School of Business Administration, Harvard University, Cambridge, Mass. 1917

CAMPAMOR, J. A., Instructor in Modern Languages, Georgia School of Technology, Atlanta, Ga. 1919

CAMPBELL, MALCOLM M., Supervising Engineer, P. O. Box 385, Montreal, Que., Canada 1919

CAMPBELL, T. P., Dean, General Faculty, Virginia Polytechnic Institute, Blacksburg, Va. 1917

CANFIELD, LLOYD A., Member of Firm, The Canfield Engineering Co., Structural Engineers, 406 Flynn Bldg., Des Moines, Ia.... 1919

CANNON, J. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1915

CAPEN, S. P., Director, American Council on Education, 818 Connecticut Ave., N. W., Washington, D. C. 1917

CAREY, CLIFTON O., Associate Professor of Surveying, University of Michigan, Ann Arbor, Mich. 1921

CARLSON, W. W., Professor of Shop Practice and Superintendent of Shops, Kansas State Agricultural College, Manhattan, Kans. 1912

CARLTON, ERNEST W., Instructor, University of Nebraska, Lincoln, Nebr. 1921

CARMAN, ALBERT P., Professor of Physics and Head of Dept., University of Illinois, Urbana, Ill. 1922

CARPENTER, D. E., Dean of the Faculty, International Correspondence Schools, Scranton, Pa. 1919

CARPENTER, EDWARD L., Associate Professor of Mechanical Engineering, The Clemson Agricultural College, Clemson College, S. C. 1922

CARPENTER, H. D., 10759 Prospect Ave., Chicago, Ill. 1910

CARPENTER, HUBERT V., Professor of Mechanical and Electrical Engineering, Dean, College of Mechanic Arts and Engineering, State College of Washington, Pullman, Wash. 1917

CARPENTER, L. G., Consulting Engineer, 702 First National Bank Bldg., Denver, Colo. 1895

CARREL, W. J., Associate Professor of Civil Engineering, University of Kentucky, Lexington, Ky. 1917

CARROLL, H. H., Assistant Professor Technical Drawing, Tufts College, Tufts College, Mass. 1911

CARSON, W. W., Emeritus Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1894

LIST OF MEMBERS.

CARTY, J. J., Vice-President, American Telephone and Telegraph Co., 195 Broadway, New York, N. Y. 1907

CARY, EDWARD R., Professor of Railway Engineering and Geodesy, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

CASE, G. W., Professor of Sanitary Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

CATLIN, W. G., Electrical Engineer, Shepard Electric Crane & Hoist Co., Montour Falls, N. Y. 1912

CAUGHEY, R. A., Associate Professor of Structural Engineering, Iowa State College, Ames, Iowa 1911

CHAMBERS, SHERMAN D., Assistant Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1921

CHANDLER, E. F., Professor of Civil Engineering, and in charge of Civil Engineering Course, University of North Dakota, University, N. D. 1907

CHAPMAN, L. B., Lehigh University, Bethlehem, Pa. 1917

CHARAVAY, M. A., Assistant Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914

CHARLES, ROLLIN L., Associate Professor of Physics, Lehigh University, Bethlehem, Pa. 1914

CHARTERS, WERRETT W., Professor of Education, and Director of Research Bureau for Retail Training, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

CHASE, C. H., Professor of Steam Engineering, Tufts College, Tufts College, Mass. 1900

CHATBURN, G. R., Professor and Chairman of the Department of Applied Mechanics and Machine Design, University of Nebraska, Lincoln, Nebr. 1899

CHESNEY, C. C., Manager and Chief Engineer, General Electric Co., Pittsfield, Mass. 1911

CHILES, GEORGE S., Consulting Engineer, 4304 Lake Park Avenue, Chicago, Ill. 1919

CHILLMAN, EDWARD F., Professor of Descriptive Geometry, Stereotomy and Drawing, Rensselaer Polytechnic Institute, Troy, N. Y. 1920

CHRISTENSEN, GEO. L., Professor of Mechanical Engineering, Michigan College of Mines, Houghton, Mich. 1905

CHURCH, EDWIN F., JR., Professor of Mechanical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1910

CISSEL, J. H., Assistant Professor of Structural Engineering, University of Michigan, Ann Arbor, Mich. 1920

CLAPP, W. H., Professor of Mechanism and Machine Design, California Institute of Technology, Pasadena, Calif. 1914

CLARK, EDWIN E., Instructor in Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

CLARK, J. C., Associate Professor of Electrical Engineering, Leland Stanford, Jr. University, Stanford University, Calif. 1912

CLARKE, ELWYN L., Professor of Civil Engineering, Head of Civil Engineering Division, Clemson College, Clemson College, S. C. 1921

CLARKSON, R. P., Consulting Engineer, General Manager, Safety Service Corporation, 29 Broadway, New York, N. Y. 1915

CLEGHORN, M. P., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1910

CLIFFORD, H. E., Gordon McKay Professor of Electrical Engineering, Harvard University, Cambridge, Mass. 1907

CLO, J. H., Professor and Head, Department of Physics, University of Pittsburgh, Pittsburgh, Pa. 1921

CLOKE, PAUL, Professor of Electrical Engineering, University of Arizona, Tucson, Ariz. 1919

CLOYD, EDWARD L., Assistant Professor of Drawing and Descriptive Geometry, and Dean of Students, North Carolina State College of A. & E., West Raleigh, N. C. 1920

CLUTZ, FRANK H., B. F. Blough Professor of Civil Engineering, Gettysburg College, Gettysburg, Pa. 1922

COAHRAN, J. M., Keystone Chemical Co., Colegrove, Pa. 1916

COBB, COLLIER, Professor and Head of the Department of Geology and Mineralogy, University of North Carolina, Chapel Hill, N. C. 1916

CODDINGTON, E. F., Professor of Mechanics, The Ohio State University, Columbus, O. 1911

CODWISE, HENRY R., Assistant Professor of Civil Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1914

COFFIN, C. A., Chairman, Board of Directors, General Electric Co., 120 Broadway, New York, N. Y. 1911

COLE, ALFRED D., Professor of Physics, Head of Department, The Ohio State University, Columbus, O. 1918

COLER, CARL S., Manager, Educational Department, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1919

COLLYER, NORMAN, Famous Players-Lasky Corporation 485 Fifth Avenue, New York City 1919

COMSTOCK, C. E., Professor of Mathematics, Bradley Polytechnic Institute, Peoria, Ill. 1909

COMSTOCK, E. H., Professor of Mine Plant and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn. 1907

COMSTOCK, F. M., Professor of Descriptive Geometry, Case School of Applied Science, Cleveland, O. 1907

LIST OF MEMBERS.

1922 CONKLING, L. D., Professor of Civil Engineering, Montana State A. & M. College, Bozeman, Mont. 1912

1912 CONNER, S. L., Associate Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1912

1921 CONRAD, L. E., Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1908

1915 CONSOLIVER, EARL L., Director, Department of Automotive Electrotechnics, School of Engineering of Milwaukee, Milwaukee, Wis. 1918

1910 CONSTANT, F. H., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1896

1907 COOK, A. L., Supervisor and Head of the Dept. of Industrial Electrical Engineering, Pratt Institute, Brooklyn, N. Y. 1913

1921 COOKE, MORRIS L., Consulting Engineer in Management, 1109 Finance Bldg., Philadelphia, Pa. 1910

1919 COOLEY, M. E., Professor of Mechanical Engineering and Dean of the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1898

1920 COOPER, F. L., Instructor in Physics, Yale University, New Haven, Conn. 1912

1922 COPPERSMITH, C. W., Associate Professor of Machine Design, Case School of Applied Science, Cleveland, O. 1915

1916 CORBETT, L. J., Engineering Dept., Pacific Gas and Electric Co., 445 Sutter St., San Francisco, Calif. 1912

1916 CORBIN, C. E., Professor of Engineering and Applied Mathematics, College of the Pacific, San Jose, Calif. 1917

1911 CORNELL, W. R., Assistant Professor of Mechanics, Cornell University, Ithaca, N. Y. 1910

1914 CORP, C. I., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1910

1911 CORY, C. L., Dean, College of Mechanics and Professor of Electrical Engineering, University of California, Berkeley, Calif. 1915

1918 COSTER, E. L., Literary Engineer, 25 Broad St., Room 1440, New York, N. Y. (Life Member) 1911

1919 COUCH, HARVEY C., President, Arkansas Light and Power Co., Pine Bluff, Ark. 1921

1919 COULSON, J. C., Assistant Professor of Physics, University of Pittsburgh, Pittsburgh, Pa. 1921

1909 COVELL, G. A., Dean of the School of Engineering and Mechanic Arts, Oregon Agricultural College, Corvallis, Ore. 1908

1907 COX, J. J., Engineer-Manager for Board of County Road Commissioners, Washtenaw County, Ann Arbor, Mich. 1915

1907 CRAIN, L. D., Professor of Mechanical Engineering, Head of Department, Colorado Agricultural College, Ft. Collins, Colo..... 1918

LIST OF MEMBERS.

CRANDELL, JOHN S., Consulting Engineer, 40 Rector St., New York, N. Y. 1912
CRANE, RUFUS, 407 W. William St., Delaware, Ohio 1918
CRAWFORD, D. F., President, Westinghouse Union Battery Co., Pittsburgh, Pa. 1914
CRAWFORD, I. C., Associate Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1913
CREAGMILE, WM. B., James G. Biddle, Scientific Instruments, 1211 Arch St., Philadelphia, Pa. 1909
CREEK, HERBERT L., Professor and Head, Dept. of English, Purdue University, LaFayette, Ind. 1922
CREIGHTON, E. E. F., Consulting Engineer, General Electric Co., Schenectady, N. Y. 1910
CREIGHTON, W. H. P., Professor of Mechanical and Sugar Engineering, Tulane University, New Orleans, La. 1893
CROCKETT, CHAS. W., Professor of Mathematics and Astronomy, Rensselaer Polytechnic Institute, Troy, N. Y. 1912
CROFOOT, GEORGE E., Assistant Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1919
CROOK, L. H., Instructor in Mechanics, Catholic University of America, Washington, D. C. 1921
CROSBY, W. W., Consulting Engineer, Baltimore, Md. 1911
CROSS, HARDY, Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1912
CROSSMAN, RALPH S., Instructor, College of Engineering, University of Illinois, Urbana, Ill. 1919
CROUCH, C. H., Dean of Engineering, Professor of Mechanical Engineering, New Hampshire College, Durham, N. H. 1907
CRUM, R. W., Engineer of Materials and Tests, Iowa State Highway Commission, Ames, Ia. 1912
CULLIMORE, ALLEN R., Director, Newark Technical School, Newark, N. J. 1914
CUMMINGS, HAROLD N., Associate Professor of Civil Engineering and Mathematics, Delaware College, Newark, Del. 1918
CURTNER, D. L., Assistant Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1921
CUSHMAN, PAUL A., Assistant Professor of Mechanical Engineering, The Polytechnic Institute, Brooklyn, N. Y. 1922
DAGGETT, P. H., Professor of Electrical Engineering, University of North Carolina, Chapel Hill, N. C. 1910
DAKE, CHARLES LAURENCE, Professor of Geology, School of Mines and Metallurgy, Rolla, Mo. 1919
DALAKER, HANS H., Associate Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

LIST OF MEMBERS.

DALBURG, F. A., care of Standard Oil Company of Venezuela, Apartado 228, Caracas, Venezuela, S. A. 1908

DALE, R. BURDETTE, Professor of Steam and Gas Engine Design, Rensselaer Polytechnic Institute, Troy, N. Y. 1921

DAMON, GEORGE A., Consulting Engineer, 832 San Fernando Bldg., Los Angeles 1911

DANFORTH, R. H., Professor of Mechanics and Hydraulics in charge of Materials Testing Laboratories, Case School of Applied Science, Cleveland, O. 1914

DANIEL, J. L., Associate Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1919

DANIELS, JOSEPH, Associate Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910

DARGAN, F. T., Professor of Electrical Engineering, Clemson A. & M. College of South Carolina, Clemson College, S. C. 1912

DAUGHERTY, ROBERT L., Professor of Mechanical and Hydraulic Engineering, California Institute of Technology, Pasadena, Calif. 1919

DAVEE, EVERETT W., Instructor, University of Maine, Orono, Me. 1922

DAVIDSON, J. B., Professor of Agricultural Engineering, Iowa State College, Ames, Iowa 1915

DAVIDSON, M. W., Professor of Mechanical Engineering, University of South Dakota, Vermilion, S. D. 1917

DAVIDSON, WARD F., Assistant Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1920

DAVIS, GEO. JACOB, JR., Dean and Professor of Civil Engineering, University of Alabama, University, Ala. 1918

DAVIS, JAS. C., Assistant Professor of Mechanical Drawing, University of Oklahoma, Norman, Okla. 1909

DAVIS, JOHN C., Citizens Bureau of Municipal Efficiency, 425 E. Water St., Milwaukee, Wis. 1908

DAVIS, R. E., Associate Professor of Civil Engineering, University of California, Berkeley, Calif. 1913

DAWES, C. L., Assistant Professor of Electrical Engineering, Harvard University, Cambridge, Mass. 1915

DAY, CHARLES, President, Day & Zimmerman, Inc., Engineers, 611 Chestnut St., Philadelphia, Pa. 1911

DEARBORN, C. S., Mechanical Engineer, Blythe, Calif. 1910

DEARBORN, R. H., Head, Dept. of Electrical Engineering, Oregon Agricultural College, Corvallis, Ore. 1917

DE BAUFRE, WM. L., Professor of Mechanical Engineering and chairman of Dept., University of Nebraska, Lincoln, Nebr. 1920

DEFOE, L. M., Professor of Mechanics, University of Missouri, Columbia, Mo. 1904

De La Mater, R. Griffin, Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922
DeLay, Frederic A., Head Lecturer, Chicago Central Station Institute, Chicago, Ill. 1909
Dellenbaugh, Frederick S., Jr., Professor of Machine Design, Massachusetts Institute of Technology, Cambridge, Mass. ... 1922
Demorest, D. J., Professor of Metallurgy, The Ohio State University, Columbus, O. 1913
Denny, Geo. H., President, University of Alabama, University, Ala. 1913
Dent, J. A., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1911
Denton, F. W., 12 Reservoir St., Cambridge, Mass. 1894
DePuy, C. E., Professor of Mechanical Engineering, Lewis Institute, Chicago, Ill. 1906
Derickson, Donald, Professor of Civil Engineering, Tulane University, New Orleans, La. 1922
Derleth, Chas., Jr., Professor of Civil Engineering and Dean of the College of Civil Engineering, University of California, Berkeley, Calif. 1904
DeSchweinitz, P. B., Professor of Machine Design, Lehigh University, Bethlehem, Pa. 1912
Dibert, H. M., Civil Engineer with W. & L. E. Gurley, Troy, N. Y.. 1913
Dickerson, H. S., Head, Mechanical Engineering Dept., Chiao Tung University, Nanyang College, 862 Avenue Haig, Shanghai, China 1912
Dickinson, L. P., Professor of Electrical Engineering, University of Vermont, Burlington, Vt. 1914
Dicks, N. J., Doherty Training School, Toledo, O. 1918
Diederichs, Herman, Director, Sibley School of Mechanical Engineering and Professor of Experimental Engineering, Cornell University, Ithaca, N. Y. 1915
Diefendorf, Adelbert, Instructor in Engineering Drawing, University of Illinois, Urbana, Ill. 1922
Diemer, Hugo, Director, Industrial Management Division, La Salle Extension University, Chicago, Ill. 1902
Dietrich, John J., Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922
Dietz, J. W., Educational Director, Western Electric Co. Inc., General Sales Dept., 195 Broadway, New York, N. Y. 1911
Dirks, Henry B., Professor of Mechanical Engineering, Michigan Agricultural College, East Lansing, Mich. 1920
Dillon, Theodore H., Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

DIX, L. E., Professor of Hydraulic and Sanitary Engineering, Norwich University, Northfield, Vt. 1917

DIX, THURMAN W., Commissioner of Highways, State of Vermont, Montpelier, Vt. 1919

DOBBS, F. E., Instructor in Estimating and Practical Mathematics, Wentworth Institute, Boston, Mass. 1912

DODGE, H. L., Professor of Physics, University of Oklahoma, Norman, Okla. 1919

DOGGETT, L. A., Professor of Electrical Engineering, U. S. Naval Academy, Annapolis, Md. 1914

DOHERTY, H. L., President, Cities Service Company, 60 Wall St., New York, N. Y. 1904

DOMONOSKE, ARTHUR B., University of California, Berkeley, Calif. 1913

DONALD, WM. J., Acting Managing Director, National Association of Corporation Training, 20 Vesey St., New York City..... 1922

DOOLEY, C. R., Manager, Personnel and Training, Standard Oil Co. (N. J.), 26 Broadway, New York, N. Y. 1907

DORROH, J. H., Dean, School of Engineering, Professor of Civil Engineering, University of Mississippi, University, Miss. 1917

DOUGHERTY, H. R., Professor and Head of Department of Mathematics, New York Military Academy, Cornwall-on-Hudson, N. Y. 1915

DOUGHERTY, N. W., Professor of Civil Engineering, University of Tennessee, Knoxville, Tenn. 1914

DOUGLAS, J. F. H., College of Engineering, Marquette University, Milwaukee, Wis. 1910

DOWD, WYLLYS E. JR., Secretary, Power Specialty Company, 111 Broadway, New York City 1921

DRAFFIN, JASPER, O., Associate in Mechanics, University of Illinois, Urbana, Ill. 1917

DRANE, WALTER H., Chief Engineer, Smith County Highway Commissioner, Smith Co., Lebanon, Tenn. 1919

DRAYER, C. E., Secretary, American Association of Engineers, 63 East Adams St., Chicago, Ill. 1922

DREYER, C. F., Head of the Department of Mechanical Engineering, Escola de Engenharia, Porto Alegre, Brazil 1913

DRUCKER, ARTHUR E., Assistant Professor of Mining Engineering, University of Illinois, Urbana, Ill. 1922

DUCEY, EDW. J., Structural Engineer, Fort Pitt Bridge Works, Canonsburg, Pa. 1915

DUCKERING, W. E., Professor of Engineering Problems, The Iowa State College, Ames, Iowa 1917

DUDLEY, SAMUEL W., Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. .. 1921

DUFF, ALEXANDER W., Professor of Physics, Worcester Polytechnic Institute, Worcester, Mass. 1921

DUFF, C. M., Professor of Applied Mechanics, University of Nebraska, Lincoln, Nebr. 1912

DUFFEY, C. F., Professor of Electrical Engineering, University of Porto Rico, Box 143, Mayaguez, P. R. 1916

DUFOUR, F. O., Professor of Civil Engineering, Director of the Division and of Materials Testing Laboratories, Lafayette College, Easton, Pa. 1906

DUKES, R. G., Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907

DUNCAN, M. M., Vice-President and General Manager, Cleveland Cliffs Iron Co., and Member Board of Control, Michigan College of Mines, Ishpeming, Mich. 1905

DUNHAM, HEBER, Assistant Professor of Engineering Drawing, New York University, New York, N. Y. 1914

DUNLAP, J. H., Professor of Hydraulics and Sanitary Engineering, State University of Iowa, Iowa City, Ia. 1916

DUNN, HAROLD, Engineer, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1917

DUPONT, T. C., Wilmington, Del. (Life Member) 1910

DUPRIEST, JOHN R., Mechanical Engineering Dept., Oregon Agricultural College, Corvallis, Ore. 1919

DURAND, W. F., Professor of Mechanical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1899

DURST, ROSS C., Assistant Professor of Civil Engineering, Municipal University of Akron, Akron, O. 1918

DUVALL, W. CLINTON, Associate Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1919

DWIGHT, H. B., Electrical Engineer, Colo. P. M. Commission, Capitol Bldg., Denver, Colo. 1912

DYCHE, H. E., Professor and Head of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

DYER, F. C., Assistant Professor of Mining Engineering, Faculty of Applied Science, University of Toronto, Toronto, Ont., Canada 1913

DYSART, P. M., Physics Dept., Schenley High School, Pittsburgh, Pa. 1911

EARLE, S. B., Director of the Engineering Department, and Professor of Mechanical Engineering, Clemson Agricultural College of South Carolina, Clemson College, S. C. 1912

EBAUGH, W. C., Professor of Chemistry, Denison University, Granville, Ohio 1908

ECKEL, C. L., Assistant Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1914

ECKHARD, G. F., Professor of Structural Engineering, University of Vermont, Burlington, Vt. 1910

EDDY, C. L., Associate Professor of Railway Engineering, Case School of Applied Science, Cleveland, O. 1910

EDGAR, R. F., Instructor in Graphics, University of Pittsburgh, Pittsburgh, Pa. 1920

EDGECOMB, R. E., Chief Engineer City Bldg. Dept., Omaha, Neb. .. 1912

EDMANDS, S. S., Director, School of Science and Technology, Pratt Institute, Brooklyn, N. Y. 1903

EDWARDS, JAMES H., Assistant Chief Engineer, American Bridge Co., 30 Church St., New York City 1922

EGGERS, HENRY C. T., Instructor, University of Minnesota, Minneapolis, Minn. 1922

ELDRED, C. P., Professor of Electrical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1918

ELL, CARL S., Dean, School of Engineering, Northeastern College, Boston, Mass. 1917

ELLIOTT, B. G., Professor of Mechanical Engineering, University of Wisconsin, Madison, Wis. 1912

ELLIOTT, D. S., Professor of Physics, Tulane University, New Orleans, La. 1919

ELLIOTT, ROY W., Instructor in Civil Engineering, University of Michigan, Ann Arbor, Mich. 1921

ELLIS, C. A., Vice President, The Strauss Bascule Bridge Co., 225 North Michigan Ave., Chicago, Ill. 1916

ELLIS, FREDERICK, 11428 96th St., Edmonton, Alberta, Canada .. 1912

ELLIS, W. T., Associate Professor of Machine Design and Applied Mechanics, North Carolina College of A. and M. Arts, West Raleigh, N. C. 1910

ELY, JOHN A., Professor of Engineering, Dean, College of Arts and Science, St. Johns University, Shanghai, China 1914

ELY, SUMNER B., Assistant Professor, Dept. of Commercial Engineering, Carnegie Institute of Technology, Pittsburgh, Pa.... 1921

EMERSON, WALTER D., Assistant Professor of Mechanical Engineering, University of Maine, Orono, Me. 1920

EMERSON, WM. H., Dean and Professor of Chemistry, Georgia School of Technology, Atlanta, Ga. 1912

EMRICK, PAUL S., Electrical Engineer, LaFayette, Ind. 1914

EMSWILER, J. E., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1919

ENDSLEY, L. E., Professor of Railway Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1907

LIST OF MEMBERS.

ENGEL, GODFREY, Consulting Engineer, Specialty Sugar Mfg. Plants, 17 Battery Place, New York, N. Y. 1915

ENGER, M. L., Professor of Mechanics and Hydraulics, University of Illinois, Urbana, Ill. 1907

ENGLEHART, RUSSELL J., Assistant Supt., Forge Laboratory, University of Illinois, Urbana, Ill. 1922

ENNIS, W. D., Vice President, Technical Advisory Corp., 132 Nassau St., New York City 1907

ENO, F. H., Professor of Municipal Engineering, The Ohio State University, Columbus, O. 1907

ENSIGN, N. E., Assistant Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1915

ERIKSON, EDWARD L., Assistant Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1921

ESTY, WILLIAM, Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1898

EVANS, F. H., Dean, College of Industrial Science, Toledo University, Toledo, O. 1907

EVANS, H. B., Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa. 1908

EVANS, H. S., Dean, College of Engineering, Professor of Electrical Engineering, University of Colorado, Boulder, Colo. 1905

EVANS, WESTON S., Instructor in Civil Engineering, University of Maine, Orono, Me. 1922

EVERETT, CHARLES W., Instructor, Washington University, St. Louis, Mo. 1922

EWING, D. D., Professor of Electrical Railway Engineering, Purdue University, LaFayette, Ind. 1910

EYRE, JAMES R., Instructor, Iowa State University, Iowa City, Ia. 1921

EYRE, T. T., Albuquerque, N. Mex. 1909

FAIG, J. T., President, Ohio Mechanics Institute, Cincinnati, O..... 1899

FAIRMAN, SEIBERT, Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1921

FARNHAM, C. S., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1908

FARNHAM, WALTER E., Instructor in General Engineering Drawing, University of Illinois, Urbana, Ill. 1919

FELGAR, J. H., Dean of the College of Engineering, University of Oklahoma, Norman, Okla. 1912

FELKER, EVERETT J., Instructor in Civil Engineering, University of Maine, Orono, Me. 1922

FERGUSON, O. J., Professor of Electrical Engineering, and Dean, College of Engineering, University of Nebraska, Lincoln, Nebr. 1908

FERMIER, E. J., Professor of Mechanical Engineering, Texas A. and M. College, College Station, Texas 1903

FERNALD, R. H., Director, Department of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1899

FERRIS, CHARLES E., Professor of Mechanical Engineering and Dean of Engineering, University of Tennessee, Knoxville, Tenn. 1913

FESSENDEN, E. A., Professor of Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1912

FIELD, F., Professor of Mathematics, Georgia School of Technology, Atlanta, Ga. 1919

FIELD, PETER, Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1921

FINCH, F. R., Assistant Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1913

FINE, H. B., Professor of Mathematics and Dean of the Departments of Science, Princeton University, Princeton, N. J. 1909

FISH, F. A., Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1905

FISH, J. C. L., Professor of Railroad Engineering, Leland Stanford Junior University, Stanford University, Calif. 1919

FISHER, JAMES, Professor of Mathematics and Physics, Michigan College of Mines, Houghton, Mich. 1899

FISK, IRA W., Associated with John A. Beeler, Consulting Engineer, 52 Vanderbilt Ave., New York, N. Y. 1914

FISK, WILBUR C., 30 Church St., New York, N. Y. 1914

FITCH, ALBERT L., Professor of Physics, University of Maine, Orono, Me. 1922

FITTERER, J. C., Professor of Civil and Irrigation Engineering, University of Wyoming, Laramie, Wyo. 1912

FITTZ, RAYMOND U., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1922

FLATHER, J. J., Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1893

FLEMING, ROBINS, Designing Engineer, American Bridge Co., 30 Church St., New York City 1921

FLEMING, V. R., Assistant Professor of Applied Mechanics, University of Illinois, Urbana, Ill. 1909

FLETCHER, A. B., Director of Public Works, State of California, Sacramento, Calif. 1913

FLOWERS, A. E., Research Engineer, 205 Bryant St., Buffalo, N. Y. 1910

FOCKE, T. M., Dean of Faculty, Kerr Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1907

FOGG, R. J., Professor and Head, Civil Engineering Dept., Lehigh University, Bethlehem, Pa. 1910

FOLK, J. THOMAS, Instructor in Mechanical Engineering Department, Louisiana Industrial Institute, Ruston, La. 1914

FOLK, S. B., Instructor in Mechanics and Hydraulics, Case School of Applied Science, Cleveland, O. 1921

FOLWELL, A. P., Managing Editor, *Public Works*, and Consulting Engineer, Montclair, N. J. 1916

FOLTZ, LEROY S., Associate Professor of Electrical Engineering, Colorado Agricultural College, Ft. Collins, Colo. 1918

FOOTE, F. S., Professor of Railroad Engineering, University of California, Berkeley, Calif. 1910

FORAKER, F. A., Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1914

FORD, ARTHUR H., Professor of Electrical Engineering, State University of Iowa, Iowa City, Ia. 1903

FORD, H. C., Associate Professor of Civil Engineering, Iowa State College, Ames, Ia. 1907

FORMAN, A. H., Professor of Electrical Engineering, West Virginia University, Morgantown, W. Va. 1916

FOSS, F. E., Professor of Civil Engineering, Cooper Union, New York, N. Y. 1893

FOSS, MARTIN M., Vice President, McGraw-Hill Book Co., Inc., 370 7th Ave., New York, N. Y. 1909

FOSTER, E. S., Assistant Chief Engineer The Packard Electric Co., Warren, Ohio 1911

FOSTER, JOHN M., Assistant Professor of Machine Design and Applied Mechanics, North Carolina State College of A. & E., College Station, N. C. 1919

FOULK, C. W., Professor of Analytical Chemistry, The Ohio State University, Columbus, O. 1913

FOX, EARLE B., Professor of Materials and Metallurgy, Post Graduate Dept., U. S. Naval Academy, Annapolis, Md. 1920

FOX, FREDERICK H., Assistant Professor of Civil Engineering, Tulane University of Louisiana, New Orleans, La. 1922

FRAMPTON, GEORGE O., Director, Dept. of Industrial Service, Toledo University, Toledo, O. 1921

FRANK, E. D. A., Mechanical Engineer, C. H. Wheeler Mfg. Co., Philadelphia, Pa. 1917

FRANKLIN, WILLIAM S., Professor of Physics, Massachusetts Institute of Technology, Cambridge, Mass. 1900

FRAZER, JOHN, Dean of the Towne Scientific School and Professor of Chemistry, University of Pennsylvania, Philadelphia, Pa... 1914

1910 FRAZIER, F. F., Assistant Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1912

1914 FREAR, J. B., American Radiator Company, Buffalo, N. Y..... 1911

1921 FREEMAN, E. H., Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1909

1916 FREEMAN, W. EDWIN, Acting Dean, College of Engineering, Professor of Electrical Engineering, University of Kentucky, Lexington, Ky. 1911

1918 FRENCH, A. W., Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1900

1910 FRENCH, ROBERT W., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. .. 1920

1914 FRENCH, THOS. E., Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1899

1903 FREY, GEORGE J., Head, Department of Mechanical Drawing, Ohio Mechanics Institute, Cincinnati, Ohio 1919

1907 FROST, HARWOOD, President, Brown Portable Conveying Machinery Co., Room 624, 10 S. LaSalle St., Chicago, Ill. 1907

1916 FRY, H. P., Assistant Professor of Mechanical Drawing, Mechanical Engineering Department, University of Pennsylvania, Philadelphia, Pa. 1914

1893 FULLAN, M. T., Professor of Machine Design and Drawing, Alabama Polytechnic Institute, Auburn, Ala. 1915

1909 FULLER, A. H., Professor and Head of Civil Engineering, The Iowa State College, Ames, Ia. 1901

1911 FULLER, C. E., Professor of Theoretical and Applied Mechanics, Harvard University School of Engineering, Cambridge, Mass. 1907

1919 FURIA, JOHN J., Instructor in Physics, New York University, New York, N. Y. 1919

1913 FURMAN, FRANKLIN DER., Professor of Machine Design, Dean for Junior Class, Stevens Institute of Technology, Hoboken, N. J.. 1907

1920 FURR, M. W., Assistant Professor of Civil Engineering, Kansas State Agricultural College, Manhattan, Kans. 1917

1922 FUSSELL, LEWIS, Acting Professor of Engineering, Swarthmore College, Swarthmore, Pa. 1921

1921 GARMAN, H. O., Chief Engineer of the Indiana Public Utilities Commission, 2062 N. Meridian St., Indianapolis, Ind. 1907

1917 GARRETT, L. E., Associate Professor of Mathematics, University of Missouri, School of Mines and Metallurgy, Rolla, Mo. 1910

1900 GAUVREAU, VICTOR, Instructor in Gas Engine and Machine Design, University of Minnesota, Minneapolis, Minn. 1922

1914 GAY, R. W., 1928 Vinton Ave., Memphis, Tenn. 1907

GEE, GEORGE B., Assistant Professor of Northeastern College, Boston, Mass. 1919

GEORGE, S. G., Professor of Mechanics of Engineering, School of Civil Engineering, College of Engineering, Cornell University, Ithaca, N. Y. 1914

GETCHELL, E. L., Assistant Professor of Mechanical Engineering, New Hampshire College, Durham, N. H. 1921

GIBSON, J. L., Dean of School of Arts and Sciences, Professor of Mathematics, University of Utah, Salt Lake City, Utah 1911

GIESECKE, F. E., Professor of Architectural Engineering, University of Texas, Austin, Tex. 1893

GILBERT, EARL R., Architect, Department of Architectural Drafting and Design, Technological High School, Atlanta, Ga. 1919

GILBRETH, F. B., 68 Eagle Rockway, Montclair, N. J. 1911

GILCHRIST, J. F., Vice President, Commonwealth Edison Co., Chicago, Ill. 1911

GILKEY, HERBERT J., Instructor in Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1922

GILL, L. M., Instructor in Chemistry, Georgia School of Technology, Atlanta, Ga. 1919

GILLESPIE, PETER, Professor of Civil Engineering, University of Toronto, Toronto, Ontario 1905

GILLETTE, H. P., Editor in Chief, *Engineering & Contracting*, 9 S. Clinton St., Chicago, Ill. 1905

GILMORE, DAVID P., Associate Professor of Structural Engineering, The State University of Iowa, Iowa City, Ia. 1919

GILMORE, L. H., Professor of Physics, California Institute of Technology, Pasadena, Calif. 1912

GLADSON, W. N., Vice President, Dean, College of Engineering, University of Arkansas, Fayetteville, Ark. 1903

GLEASON, RUTHERFORD E., Instructor in Mathematics, State University of Iowa, Iowa City, Ia. 1922

GODFREY, HOLLIS, Commissioner, Advisory Commission of the Council of National Defense, Philadelphia, Pa. 1913

GOLDINGHAM, A. H., Sales Engineer, De la Vergne Machine Co., New York, N. Y. 1911

GOLDMAN, OTTO B., Professor of Heat Engineering, Oregon State Agricultural College, Corvallis, Ore. 1919

GOLDSMITH, ADOLPH, Instructor, Massachusetts Institute of Technology, Cambridge, Mass. 1922

GOODENOUGH, G. A., Professor of Thermodynamics, University of Illinois, Urbana, Ill. 1900

GOSS, W. F. M., President, Railway Car Manufacturers' Association, 61 Broadway, New York, N. Y. 1893

GOULD, FLETCHER A., 508 Grove St., East Lansing, Mich. 1916

GOULDING, HERBERT J., Associate Professor of Descriptive Geometry and Drawing, University of Michigan, Ann Arbor, Mich. 1914

GRAHAM, WM. P., Professor of Electrical Engineering and Dean of the College of Applied Science, Syracuse University, Syracuse, N. Y. 1912

GRAM, L. M., Professor of Structural Engineering, University of Michigan, Ann Arbor, Mich. 1913

GRANDLIENARD, EDWARD T., Assistant Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1919

GRAY, JOHN C., Assistant Professor, Dept. of Electrical Engineering and Physics, U. S. Naval Academy, Annapolis, Md. 1920

GREENE, ARTHUR M., JR., Dean, School of Engineering, Professor of Mechanical Engineering, Princeton University, Princeton, N. J. 1903

GREENOUGH, MAURICE B., Instructor in Civil Engineering, Case School of Applied Science, Cleveland, Ohio 1912

GREGG, ROYAL B., Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

GREGORY, W. B., Professor of Experimental Engineering, Tulane University; Irrigation Engineer, U. S. Department of Agriculture, New Orleans, La. 1907

GREINER, J. E., Consulting Engineer, Fidelity Bldg., Baltimore, Md. 1911

GREVE, F. W., JR., Assistant Professor of Hydraulic Engineering, Purdue University, LaFayette, Ind. 1912

GRISWOLD, ROBT. G., Chief Technologist, H. L. Doherty & Company, 60 Wall St., New York, N. Y. 1917

GROAT, B. F., Consulting Engineer, 6327 Howe St., Pittsburgh, Pa. 1899

GRONDAHL, L. O., Union Switch and Signal Co., Swissvale, Pa. .. 1915

GROVER, ARCHER L., Professor of Engineering Drawing, University of Maine, Orono, Me. 1922

GROVER, N. C., Chief Hydraulic Engineer, United States Geological Survey, Washington, D. C. 1894

GRUMBEIN, J. B., Professor of Steam and Experimental Engineering, West Virginia University, Morgantown, W. Va. 1912

GRUNDHOEFFER, E. F., The Pennsylvania State College, State College, Pa. 1915

GUMMERE, H. V., Breezy Knoll Farm, Glen Mills, Delaware Co., Pa. 1914

HAIGLER, CHAS. E., In charge of Co-Ordination Dept., Franklin Union, Division of Rehabilitation, Boston, Mass. 1912

HALE, R. S., Supt., Special Research Dept. Edison Illuminating Company of Boston, Boston, Mass. 1916

HALL, ARTHUR A., Associate Professor of Applied Electricity, West Virginia University, Morgantown, W. Va. 1918
HALL, BURRILL R., Supt. of Pattern Shop, University of Illinois, Urbana, Ill. 1920
HALL, JAMES A., Associate Professor of Mechanical Engineering, Brown University, Providence, R. I. 1914
HALL, W. H., Assistant Professor of Engineering, Trinity College, Durham, N. C. 1917
HALLOCK, J. W., Professor and Head of Industrial Engineering, Director, Co-Operative Work, University of Pittsburgh, Pittsburgh, Pa. 1915
HALSEY, W. D., Hartford Steam Boiler & Insurance Co., Hartford, Conn. 1917
HAM, WM. R., Professor of Physics, Pennsylvania State College, State College, Pa. 1914
HAMERSCHLAG, A. A., President, Carnegie Institute of Technology, Pittsburgh, Pa. 1903
HAMILTON, EDW. P., Secretary, John Wiley & Sons., Inc., 432 Fourth Ave., New York, N. Y. 1914
HAMILTON, GEO. A., 532 Morris Ave., Elizabeth, N. J. 1911
HAMILTON, J. McC., President, Montana State College of A. & M. Arts, Bozeman, Mont. 1912
HAMILTON, J. O., Professor of Physics, Kansas State Agricultural College, Manhattan, Kans. 1910
HAMMER, M. R., Purdue University, LaFayette, Ind. 1917
HAMMOND, H. P., Professor of Sanitary and Hydraulic Engineering, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1916
HANCOCK, CHARLES, Professor of Mechanical Engineering, University of Virginia, University, Va. 1915
HANEY, J. W., Associate Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1916
HANNA, U. S., Associate Professor of Mathematics, Indiana University, Bloomington, Ind. 1915
HARBARGER, SADA A., Instructor in English, The Ohio State University, Columbus, Ohio 1918
HARDING, C. F., Professor of Electrical Engineering and Director of the Electrical Laboratories, Purdue University, LaFayette, Ind. 1908
HARING, ALEXANDER, 2489 Sedgwick Ave., Bronx, New York, N. Y. 1907
HARLAN, ORLAN K., Assistant Professor of Mechanical Engineering, The Pennsylvania State College, State College, Pa. 1921
HARPER, A. C., Pratt Institute, Brooklyn, N. Y. 1911
HARRIS, C. L., Associate Professor of Architectural Engineering, The Pennsylvania State College, State College, Pa. 1914

LIST OF MEMBERS.

1918 HARRIS, F. C., Director, Agricultural and Industrial Engineering, The London Machinery Co., Fairfield, Iowa. 1910

1920 HARRIS, WALTER B., Professor of Geodesy, Princeton, University, Princeton, N. J. 1914

1914 HARTER, G. A., Professor of Mathematics and Physics, Delaware College, Newark, Del. 1905

1917 HARTIG, HENRY E., Instructor in Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

HARTMANN, F. M., Professor of Electrical and Mechanical Engineering, Cooper Union, New York, N. Y. 1908

1915 HASKELL, E. E., Professor of Experimental Hydraulics, Emeritus, Cornell University, Ithaca, N. Y. 1907

1917 HASKELL, F. E., Assistant Examiner, U. S. Patent Office, Washington, D. C. 1914

1914 HASKELL, M. W., Professor of Mathematics, University of California, Berkeley, Cal. 1910

1903 HATCH, DAVID A., Assistant Professor of Mathematics, Lafayette College, Easton, Pa. 1908

1914 HATT, W. K., Professor of Civil Engineering and Director of the Materials Testing Laboratory, Purdue University, LaFayette, Ind. 1895

1911 HAULTAIN, H. E. T., Professor of Mining Engineering, University of Toronto, Toronto, Ont., Canada 1911

1912 HAWES, J. H., Junior Master, Dorchester High School, Dorchester Center, 24, Mass. 1900

1910 HAY, EARL D., Dean, College of Engineering, Des Moines University, Des Moines, Iowa 1915

1917 HAYES, D. D., Professor of Machine Design and Construction, West Virginia, Morgantown, W. V. 1922

1916 HAYFORD, J. F., Director of the College of Engineering, Northwestern University, Evanston, Ill. 1905

1915 HAYWARD, H. W., Professor of Materials of Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1904

1918 HAZELTINE, L. A., Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1910

1908 HECK, ROBERT C. H., Professor of Mechanical Engineering, Rutgers College, New Brunswick, N. J. 1907

1907 HEDRICK, E. R., Professor of Mathematics, University of Missouri, Columbia, Mo. 1910

1921 HEDRICK, I. G., Senior Member of Hedrick & Huff, Consulting Engineers, 506 Inter State Bldg., Kansas City, Mo. 1903

1911 HEDRICK, WM. A., Head of the Department of Physics of the High and Manual Training Schools, Central High School, Washington, D. C. 1913

1914

HELMAN, M. P., Mining Machinery Co., 531 Gaston Ave., Fairmount, W. Va. 1914
HENDERSON, W. E., Professor of Inorganic and Physical Chemistry, The Ohio State University, Columbus, Ohio. 1919
HENDRICK, T. K., Instructor in Engineering Mechanics, Yale University, New Haven, Conn. 1921
HENLINE, HENRY H., Assistant Professor of Electrical Engineering, Stanford University, Stanford University, Calif. 1919
HENSHALL, P. P., Instructor in Machine Shop, Pennsylvania State College, State College, Pa. 1915
HERING, RUDOLPH, Hydraulic and Sanitary Consulting Engineer, Apt. 22, 550 West 157th St., New York City 1911
HERRICK, CARL A., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922
HERRMANN, RAYMOND R., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922
HERTY, C. H., President, Synthetic Organic Chemical Mfg. Assoc. 1 Madison Ave., New York, N. Y. 1912
HEWERDINE, T. S., Consulting Civil and Hydraulic Engineer, Olivia, Minn. 1907
HEWITT, C. E., 2027 B—1800 Virginia Ave., Washington, D. C.... 1915
HEWLETT, VAN WYCH, JR., Woodmere, L. I., N. Y. 1920
HIBBARD, H. WADE, Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1896
HICKERSON, T. F., Professor of Civil Engineering, University of North Carolina, Chapel Hill, N. C. 1914
HIGBEE, F. G., Professor and Head of the Department of Descriptive Geometry and Drawing, State University of Iowa, Iowa City, Ia. 1906
HIGBIE, H. H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1908
HILL, ARTHUR ST. JOHN, Associate Professor of Electrical Engineering, University of Maine, Orono, Me. 1919
HILL, CLIFTON R., Assistant Professor of Civil Engineering, University of Nevada, Reno, Nev. 1918
HILL, J. E., Professor of Civil Engineering, Brown University, Providence, R. I. 1894
HILL, LESTER S., Assistant Professor of Mathematics, University of Maine, Orono, Me. 1922
HILL, WM. W., Professor of Electrical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1912
HILLEBRAND, W. A., 345 Kellogg Ave., Palo Alto, Calif. 1910
HILLEGASS, H. H., Engineering Dept., Bell Telephone Co. of Penna., Philadelphia, Pa. 1916

HINSCH, VAN BUREN, Instructor in Mathematics, Missouri School of Mines and Metallurgy, Rolla, Mo. 1919

HIROI, ISAMI, Professor of Civil Engineering, Tokyo Imperial University, College of Engineering, Tokyo, Japan 1910

HITCHCOCK, E. A., Dean of Engineering College, The Ohio State University, Columbus, O. 1921

HITCHCOCK, F. A., Associate Engineer Physicist, Bureau of Standards, Washington, D. C. 1913

HITCHCOCK, GEO. G., Professor of Physics, Pomona College, Claremont, Calif. 1911

HITCHCOCK, LEON W., Professor of Electrical Engineering, New Hampshire College, Durham, N. H. 1922

HITCHCOCK, W. A., Associate Professor of Civil Engineering, University of Wyoming, Laramie, Wyo. 1915

HIXON, C. R., Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1910

HOAD, W. C., Professor of Sanitary Engineering, University of Michigan, Ann Arbor, Mich. 1907

HOBBS, ALLAN W., Associate Professor of Applied Mathematics, University of North Carolina, Chapel Hill, N. C. 1921

HOCKEMA, FRANK C., Instructor, Purdue University, LaFayette, Ind. 1921

HODGKINS, H. L., President and Professor of Mathematics, George Washington University, Washington, D. C. 1908

HOEFER, E. G., Professor of Mechanical and Electrical Engineering, University of Wyoming, Laramie, Wyo. 1910

HOELSCHER, RANDOLPH P., Assistant Professor of General Engineering Drawing, University of Illinois, Urbana, Ill. 1912

HOERNING, CARLOS, Professor of Mechanical Engineering, Universidad de Chile, Santiago, Chile 1912

HOEXTER, S. J., Educational Work, Emerson Institute of Efficiency, Detroit, Mich. 1914

HOFMANN, G. A., Professor of Mechanical Engineering, St. Marys College, Dayton, O. 1916

HOFMAN, H. O., Professor of Metallurgy, Massachusetts Institute of Technology, Cambridge, Mass. 1894

HOFFMAN, A. H., Research Specialist in Agricultural Engineering, University Farm, Davis, Calif. 1907

HOFFMAN, J. D., Head, Dept. of Practical Mechanics; Professor of Practical Mechanics; Director, Laboratories of Practical Mechanics, Purdue University, LaFayette, Ind. 1907

HOLDEN, C. A., Director, Thayer School of Civil Engineering, Dartmouth College, Hanover, N. H. 1901

HOLDER, F. J., Professor of Mathematics and Dean of School of Commerce, Mercer University, Macon, Ga. 1912
HOLLIS, I. N., President, Worcester Polytechnic Institute, Worcester, Mass. 1894
HOLLISTER, S. C., Light, Hollister & Ferguson, Inc., Civil and Industrial Engineers, 1200 Land Title Bldg., Philadelphia, Pa... 1916
HOLMAN, W. F., Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1912
HOLMES, FRED E., Assistant Professor of Mechanics and Hydraulics, The State University of Iowa, Iowa City, Ia. 1919
HOLTON, EDWIN L., Professor of Education and Dean of Summer School, Kansas State Agricultural College, Manhattan, Kans... 1919
HOOD, GEO. J., Professor of Engineering Drawing, University of Kansas, Lawrence, Kans. 1914
HOOD, O. P., 1831 Irving St., N. W., Washington, D. C. 1893
HOOK, IRA T., Assistant Professor of Strength of Materials, Yale University, New Haven, Conn. 1922
HOOPER, E. G., Assistant Professor of Civil Engineering, New York University, New York, N. Y. 1909
HOOVER, THEODORE J., Professor of Mining and Metallurgy, Leland Stanford Jr. University, Stanford University, Calif. 1919
HOSKINS, L. M., Professor of Applied Mathematics, 1240 Waverly St., Palo Alto, Calif. 1893
HOSMER, GEO. L., Associate Professor of Geodesy, Massachusetts Institute of Technology, Cambridge, Mass. 1914
HOUGHTON, C. E., Professor of Mechanics, New York University, New York, N. Y. 1908
HOUSE, E. B., Professor of Civil and Irrigation Engineering, Colorado State Agricultural College, Ft. Collins, Colo. 1913
HOUSEHOLDER, FRED F., Professor of Physics, Municipal University of Akron, Akron, O. 1922
HOUSTON, HALE, Professor of Civil Engineering, Clemson A. & M. College, Clemson College, S. C. 1914
HOWARD, J. W., Assistant Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907
HOWE, C. D., Partner, C. D. Howe & Co., Consulting Engineers, Port Arthur, Ontario, Canada 1912
HOWE, C. S., President of the Case School of Applied Science, Cleveland, O. 1902
HOWE, LEON B., Professor of Drawing, College of Applied Science, Syracuse University, Syracuse, N. Y. 1917
HOWELL, ALMONTE C., Instructor in English, University of North Carolina, Chapel Hill, N. C. 1922

HOWELL, R. S., Associate Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1919

HOWER, H. S., Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1914

HOWES, HORACE L., Professor of Physics, New Hampshire State College, Durham, N. H. 1921

HOXTON, L. G., Professor of Physics, University of Virginia, University, Va. 1915

HUBBARD, A. K., with B. E. Briggs, Consulting Engineer, Erie, Pa.. 1907

HUGHES, H. J., Dean of the Engineering School, Professor of Civil Engineering, Harvard University, Cambridge, Mass 1907

HUME, ALFRED, Vice-Chancellor, Professor of Mathematics, University of Mississippi, University, Miss. 1894

HUMPHREY, H. K., Assistant Professor of Electrical Engineering, Rice Institute, Houston, Tex. 1918

HUMPHREYS, A. C., President, Stevens Institute of Technology, Hoboken, N. J. 1903

HUMPHREY, CARL T., Dean, School of Technology, Villanova College, Villanova, Pa. 1921

HUNT, ROBERT W., Senior Member of Robert Hunt & Co., 2200 Insurance Exchange, Chicago, Ill. 1913

HUNTER, J. A., Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1904

HUNTINGTON, E. V., Professor of Mechanics, Harvard University, Cambridge, Mass. 1906

HUNTINGTON, W. C., Professor of Civil Engineering, University of Colorado, Boulder, Colo. 1914

HUSTEDT, HERMAN F., Instructor in Mechanic Arts, Tulane University, New Orleans, La. 1922

HYDE, A. L., Associate Professor of Bridge Engineering, University of Missouri, Columbia, Mo. 1904

HYDE, E. P., Director of Research, National Lamp Works of General Electric Co., Nela Park, Cleveland, O. 1911

INGRAM, E. L., Professor of Railroad Engineering and Geodesy, University of Pennsylvania, Philadelphia, Pa. 1908

IVES, F. W., Professor of Agricultural Engineering, The Ohio State University, Columbus, O. 1910

IVES, H. C., Professor of Railroad Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1901

IYER, R. P., Supervisor, Public Works Department, Teruverambur P. O., Trechwofoltz District, Deccan, India 1910

JABLOW, CHARLES, Westinghouse E. & M. Co., East Pittsburgh, Pa. 1910

JACKSON, DUGALD C., Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1893
JACOBUS, D. S., Advisory Engineer, The Babcock & Wilcox Co., 85 Liberty St., New York, N. Y. 1893
JACOBY, H. S., Professor of Bridge Engineering, Cornell University, 105 Harvard Place, Ithaca, N. Y. 1894
JAMES, J. H., Professor of Chemistry, Carnegie Institute of Technology, Pittsburgh, Pa. 1910
JAMES, W. G., Trans. Eng. Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1917
JAMESON, J. M., Vice President, Girard College, Philadelphia, Pa.. 1903
JASPER, T. McL., Special Research Assistant Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1920
JENKIN, ANTHONY, Assistant Professor of Mining Engineering, Case School of Applied Science, Cleveland, O. 1921
JENKINS, A. LEWIS, Professor of Mechanical Engineering, University of Cincinnati, Cincinnati, O. 1907
JENKINS, D. R., Professor of Electrical Engineering, University of North Dakota, University Station, Grand Forks, N. D. 1912
JEWETT, F. B., Vice President and Chief Engineer, Western Electric Co., Inc., 463 West St., New York, N. Y. 1914
JOHNDROE, S. G., Instructor in Mathematics, Wentworth Institute, Boston, Mass. 1921
JOHNSON, A. R., Associate Professor of Civil Engineering and Graphics, Rutgers College, New Brunswick, N. J. 1909
JOHNSON, C. A., Larimer, Pa. 1915
JOHNSON, E. A., Head of the Foundry Dept., Wentworth Institute, Boston, Mass. 1913
JOHNSON, EUGENE L., Assistant Professor of English, University of Missouri, Rolla, Mo. 1922
JOHNSON, F. ELLIS, Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1916
JOHNSON, J. S. A., Professor of Applied Mechanics and Experimental Engineering, Virginia Polytechnic Institute, Blacksburg, Va. 1921
JOHNSON, L. J., Professor of Civil Engineering, Harvard University, Cambridge, Mass. 1898
JOHNSON, PHELPS, Care of Dominion Bridge Co., Montreal, Canada. 1910
JOHNSTON, C. T., Professor of Geodesy and Surveying, Custodian of the Bogardus Tract, and Director Camp Davis, University of Michigan, Ann Arbor, Mich. 1913
JOHNSTON, W. A., Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Cambridge, Mass. 1907

JONES, C. R., Dean of the College of Engineering and Professor of Power Engineering, West Virginia University, Morgantown, W. Va. 1895

JONES, E. C., Assistant Professor of Shop Practice, Kansas State Agricultural College, Manhattan, Kans. 1917

JONES, F. E., Assistant Professor of Mechanic Arts, University of Kansas, Lawrence, Kans. 1915

JONES, F. R., 111 Broadway, N. Y. 1893

JONES, J. O., Assistant Professor of Hydraulics, University of Kansas, Lawrence, Kans. 1916

JONES, LAUDER W., Dean, School of Chemistry and Dean, College of Engineering and Architecture, University of Minnesota, Minneapolis, Minn. 1920

JONES, LEONARD R., Instructor, Massachusetts Institute of Technology, Cambridge Mass. 1922

JONES, SAMUEL M., Research Assistant, Massachusetts Institute of Technology, Cambridge, Mass. 1922

JORDAN, H. H., Professor of General Engineering Drawing and Assistant Dean, College of Engineering, University of Illinois, Urbana, Ill. 1915

JOURDAN, JOHN W., Assistant Professor of Irrigation Engineering, New Mexico College of A. & M. Arts, State College, N. Mex... 1919

JUDD, HORACE, Professor of Hydraulic Engineering, The Ohio State University, Columbus, O. 1907

JUNE, HENRY N., A. & M. College of Texas, College Station, Tex. 1919

KANE, E. W., Instructor in Electrical Engineering and Drawing, Marquette University, Milwaukee, Wis. 1921

KARAPETOFF, VLADIMIR, Professor of Electrical Engineering, Cornell University, Ithaca, N. Y. 1909

KARTAK, FRANZ A., Professor of Electrical Engineering, Marquette University, Milwaukee, Wis. 1922

KAVANAUGH, W. H., Professor of Experimental Engineering, University of Pennsylvania, Philadelphia, Pa. 1902

KAZDA, CHARLES B., Head Instructor Graduate Student Course, Central Station Institute, Commonwealth Edison Company; Instructor in Physics and Electrical Engineering, Junior College of Crane Technical High School, Chicago, Ill. 1918

KEENER, CHARLES A., Instructor in Electrical Engineering, University of Illinois, Urbana, Ill. 1922

KEGERREIS, ROY, Professor of Electrical Engineering, University of Delaware, Newark, Del. (Life Member) 1913

KELLER, A. R., 2456 Oahn Avenue, Honolulu, T. H. 1910

KELLER, GEORGE J., Assistant Professor of Steam Engineering, The State University of Iowa, Iowa City, Ia. 1919

KELLER, J. O., Industrial Engineering Department, The Pennsylvania State College, State College, Pa. 1916

KELLEY, HOWARD G., President, Grand Trunk Railway System, Montreal, P. Q., Canada 1910

KELLOGG, E. W., Research Laboratory, General Electric Co., Schenectady, N. Y. 1913

KENERSON, W. H., Professor of Mechanical Engineering, Chairman Division of Engineering, Brown University, Providence, R. I. 1903

KENISON, ERVIN, Associate Professor of Drawing and Descriptive Geometry, Massachusetts Institute of Technology, Cambridge, Mass. 1912

KENNEDY, F. L., Associate Professor of Engineering Drawing, Harvard University, Cambridge, Mass. 1904

KENNELLY, A. E., Professor of Electrical Engineering, Harvard University and Massachusetts Institute of Technology, Cambridge, Mass. 1916

KENT, BENJAMIN C., Associate Professor of Mechanical Engineering, University of Maine, Orono, Me. 1922

KENT, J. M., Instructor in Steam and Electricity, Manual Training High School, Kansas City, Mo. 1903

KESNER, H. J., Associate Professor of Civil Engineering, Armour Institute of Technology, Chicago, Ill. 1921

KETCHUM, MILO S., Director, Civil Engineering Dept., Professor of Civil Engineering, University of Pennsylvania, Philadelphia, Pa. 1903

KIDD, J. W., Professor of Engineering, Texas State School of Mines and Metallurgy, Fort Bliss, Tex. 1908

KIEFER, EARL C., Assistant Professor of Mathematics, Iowa State College, Ames, Iowa 1921

KIEFER, P. J., Associate Professor of Mechanical and Marine Engineering, Post Graduate School, U. S. Naval Academy, Annapolis, Md. 1917

KIMBALL, D. S., Professor of Machine Design and Industrial Engineering, and Dean, College of Engineering, Cornell University, Ithaca, N. Y. 1915

KING, CARL, Wickwire Spencer Steel Corp., Palmer, Mass. 1912

KING, E. E., Professor of Railway Civil Engineering, University of Illinois, Urbana, Ill. 1908

KING, H. W., Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1913

KING, MORLAND, Professor of Electrical Engineering, LaFayette College, Easton, Pa. 1920

KING, R. S., Professor of Experimental Engineering, Georgia School of Technology, Atlanta, Ga. 1904
KINGSBURY, ALBERT, 4320 Tackawanna Street, Philadelphia, Pa. 1893
KINSEY, A. S., Professor of Shop Practice, Stevens Institute of Technology, Hoboken, N. J. 1912
KINSLEY, CARL, 318 Highland Road, Ithaca, N. Y. 1903
KIRBY, R. S., Assistant Professor of Drawing and Descriptive Geometry, Sheffield Scientific School, Yale University, New Haven, Conn. 1911
KIRCHNER, W. H., Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1910
KIRKHAM, J. E., Professor of Structural Engineering, Iowa State College, Ames, Ia. 1915
KITTREDGE, RAYMOND B., Associate Professor of Railroad Engineering, State University of Iowa, Iowa City, Ia. 1921
KLEIN, A. W., Professor of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1908
KLOEFFLER, ROYCE G., Associate Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1919
KNAPP, E. R., Professor of Descriptive Geometry and Mechanical Drawing, Stevens Institute of Technology, Hoboken, N. J. 1912
KNAPP, W. A., Purdue University, LaFayette, Ind. 1920
KNIGHT, C. D., Professor of Experimental Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1907
KNIGHT, NATHANIEL H., Associate Professor of Physics, Tufts College, Tufts College, Mass. 1920
KNIGHT, W. A., Professor of Mechanical Practice, The Ohio State University, Columbus, O. 1907
KNIPP, CHARLES T., Professor of Experimental Electricity, University of Illinois, Urbana, Ill. 1921
KNOETTGE, CARL H., 962 Pleasant St., Chicago, Ill. 1918
KNOWLES, MAHLON G., Instructor in Mechanical Engineering, Rhode Island State College, Kingston, R. I. 1922
KNOWLES, MORRIS, Director, Department of Sanitary Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
KOERBER, G. A., Professor of Electrical Engineering, Delaware College, Newark, Del. 1915
KOLYN, M. D., Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1920
KONDO, SENTARO, Civil Engineer, No. 27 Tatsuokacho Hongo, Tokoyo, Japan 1911
KONDO, TORAGORO, Chief of Technical Division, Public Works Bureau, Home Department, Tokyo, Japan (Life Member).... 1911

KOVARIK, ALOIS F., Assistant Professor of Physics, Sheffield Scientific School, Yale University, New Haven, Conn. 1919
KOWALKE, OTTO L., Professor of Chemical Engineering, University of Wisconsin, Madison, Wis. 1918
KRAPF, H. C., Instructor in Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1921
KREWSON, R. H., Teacher of Practical Arts, Frankford High School, Philadelphia, Pa. 1912
KUNZE, E. J., Professor and Head, Dept. of Industrial Engineering, The Pennsylvania State College, State College, Pa. 1907
KURTZ, E. B., Assistant Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1921
LAMBERT, B. J., Head, Dept. of Civil Engineering, State University of Iowa, Iowa City, Ia. 1907
LAMBERT, P. A., Professor of Mathematics, Lehigh University, Bethlehem, Pa. 1897
LAMBIE, J. S., Associate Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914
LANDRETH, OLIN H., 140 Park Ave., Mt. Vernon, New York, N. Y. 1893
LANGILLE, H. B., Associate Professor of Machine Design and Mechanical Drawing, University of California, Berkeley, Cal. ... 1915
LANGFORD, ERNEST, Associate in Architectural Construction, University of Illinois, Urbana, Ill. 1920
LANGSDORF, A. S., Industrial Engineer, Crunden Martin Mfg. Co., 1205 Amherst Place, St. Louis, Mo. 1903
LANHAM, EDGAR T., Supt., Forge Laboratories, University of Illinoise, Urbana, Ill. 1922
LANIER, A. C., Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915
LAPHAM, J. R., Professor of Civil Engineering, George Washington University, Washington, D. C. 1912
LARKIN, F. V., Head, Department of Mechanical Engineering, Lehigh University, Bethlehem, Pa. 1912
LARSON, G. L., Professor of Steam and Gas Engineering, 27 Lathrop St., Madison, Wis. 1911
LAURSON, PHILIP G., Assistant Professor of Engineering Mechanics, Yale University, New Haven, Conn. 1920
LAWRANCE, C. H., Associate Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1906
LAWRENCE, C. W., Professor of Civil Engineering, University of Southern California, Los Angeles, Cal. 1909
LAWRENCE, ERNEST F., Instructor in Electrical Engineering, Tufts College, Tufts College, (57) Mass. 1921

LAWRENCE, R. R., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1907

LAWS, F. A., Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1909

LAWTON, E. E., Associate Professor of Electrical Engineering, Syracuse University, Syracuse, N. Y. 1910

LEAVITT, HAROLD W., Assistant Professor of Civil Engineering, University of Maine, Orono, Me. 1922

LECONTE, J. N., Professor of Engineering Mechanics, University of California, Berkeley, Calif. 1913

LEE, ALFRED O., Associate Professor of Modern Languages, University of Michigan, Ann Arbor, Mich. 1921

LEFAVOUR, HOWARD P., Lecturer and Instructor in Automotive Engineering, Northeastern College, Boston, Mass. 1922

LEFAVOUR, ROLAND W., Instructor in Civil Engineering, Tufts College, Tufts College, Mass. 1921

LEFEBVRE, OLIVIER O., Chief Engineer, Quebec Streams Commission, 247 Mount Royal West, Montreal, Canada 1919

LELAND, O. M., Dean, College of Engineering and Architecture, and the School of Chemistry, University of Minnesota, Minneapolis, Minn. 1908

LENDALL, H. N., Associate Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1912

LEONARD, HEMAN BURR, Professor of Mathematics, University of Arizona, Tucson, Ariz. 1919

LEPAGE, CLIFFORD B., Assistant Secretary, The American Society of Mechanical Engineers, 29 West 39th St., New York City. 1908

LESTER, O. C., Professor of Physics, Dean of Graduate School, University of Colorado, Boulder, Colo. 1912

LETELLIER, L. S., Professor of Civil Engineering and Drawing, The Citadel, The Military College of South Carolina, Charleston, S. C. 1912

LEUTWILER, O. A., Professor of Mechanical Engineering Design, University of Illinois, Urbana, Ill. 1906

LEWIS, J. F., Electrical and Railway Engineer, 505 Brinton St., Germantown, Philadelphia, Pa. (Life Member) 1913

LIGHT, J. J., Assistant Professor of Mechanical Engineering, Pennsylvania State College, State College, Pa. 1917

LILLY, S. B., 30 Church St., New York City 1913

LINDELL, WILLIAM F., Instructor in Engineering, University of Delaware, Newark, Del. 1922

LINDBLAD, A. F., Assistant Professor of Naval Architecture, University of Michigan, Ann Arbor, Mich. 1921

LINDEMANN, C. A., Professor of Civil Engineering, Bucknell University, Lewisburg, Pa. 1905
LINDLEY, ROY W., Assistant in Foundry, Purdue University, LaFayette, Ind. 1922
LINVILLE, C. P., Metallurgical Engineer American Smelting & Refining Co., Perth Amboy, N. J. 1904
LITTLE, ARLINGTON P., Professor of Electrical Engineering, Colorado School of Mines, Golden, Colo. 1918
LITTLE, EDMUND F., Mechanician and Instructor in Mechanical Practice, University of Vermont, Burlington, Vt. 1922
LITTLE, C. N., Dean of the College of Engineering and Professor of Civil Engineering, University of Idaho, Moscow, Idaho 1907
LITTLE, G. T., Instructor, Portland High School, Electrical Department, 10 Caldwell St., Woodfords, Maine 1916
LLOYD, S. J., Professor of Chemistry and Chemical Engineering, State University of Alabama, University, Ala. 1921
LOCKWOOD, E. H., Assistant Professor of Mechanical Engineering, Yale University, New Haven, Conn. 1908
LONG, J. J., Chief Engineer Thompson & Black, Real Estate Exchange, Detroit, Mich. 1911
LONGYEAR, J. M., Member Board of Control, Michigan College of Mines, Marquette, Mich. 1905
LORING, WARREN E., Instructor in Mathematics, University of Maine, Orono, Me. 1922
LORY, C. A., President, State Agricultural College of Colorado, Fort Collins, Colo. 1908
LOTT, S. H., Assistant Professor of Mechanical Drawing and Descriptive Geometry, Stevens Institute of Technology, Hoboken, N. J. 1921
LOURIA, MILTON R., Instructor, University of Maine, Orono, Me. 1922
LOVE, A. C., State Highway Dept., Austin, Texas 1900
LOVELL, ALFRED H., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1920
LOVETT, I. H., Assistant Professor of Electrical Engineering, University of Missouri, Rolla, Mo. 1921
LUBY, WM. A., Head of Dept. of Mathematics, Junior College of Kansas City, Kansas City, Mo. 1914
LUCKE, C. E., Professor of Mechanical Engineering and Head of Dept., Columbia University, New York, N. Y. 1906
LUDERITZ, JOAO, Engenheiro Chefo-Instituto Technico Professional, Porto Alegre, Brazil 1909
LUDY, L. V., Professor of Experimental Engineering, Purdue University, LaFayette, Ind. 1902

LUEBS, AUGUST A., Assistant Professor of Mechanical Engineering, University of Nebraska, Lincoln, Nebr. 1921

LUND, JACOB, Supt. Heat and Power Dept., Kansas State Agricultural College, Manhattan, Kans. 1910

LUNDGREN, LEONARD, Captain C. of E., Instructor, Dept. Civil Engineering, Camp Humphreys, Va. 1907

LUTHER, H. B., Assistant Professor Civil Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1914

LYLE, WM. T., Professor of Civil Engineering, Washington and Lee University, Lexington, Va. 1914

LYMAN, RICHARD R., Professor of Civil Engineering, University of Utah, Salt Lake City, Utah 1908

LYNCH, D. E., Intructor in Forging, Foreman, Blacksmith Shop, Kansas State Agricultural College, Manhattan, Kans. 1915

LYON, ALPHEUS C., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1922

MCADAMS, EDWARD E., Business Manager, City of Bryant, Tex.... 1918

MCALLISTER, A. S., Electrical Engineer, 248 West 76th St., New York, N. Y. 1911

MCANLIS, CHAUNCEY R., Associate in Architectural Engineering, University of Illinois, Urbana, Ill. 1922

MCCAFFERY, R. S., Professor of Metallurgy, University of Wisconsin, Madison, Wis. 1911

MCCABE, FRANCIS T., Instructor in Graphics, Tufts College, Tufts College, Mass. 1921

MCCANDLISS, L. C., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

MCCANN, WM. R., Electrical Engineer, care of Stone & Webster, 147 Milk St., Boston, Mass. 1912

MCCAUSTLAND, E. J., Dean, School of Engineering, and Director Engineering Experiment Station, University of Missouri, Columbia, Mo. 1902

MCCLAIN, F. H., Associate Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1921

MCCLELLAND, E. H., Technology Librarian, Carnegie Library of Pittsburgh, Pittsburgh, Pa. 1912

MCCLINTIC, H. H., Vice-President McClintic-Marshall Construction Co., Pittsburgh, Pa. 1910

MCCLINTOCK, WM. MCK., Assistant Professor of Mathematics, University of Minnesota, Minneapolis, Minn. 1922

MCCORMICK, C. M., Instructor in Electrical Engineering, University of Colorado, Boulder, Colo. 1917

McCormick, E. B., Mechanical Engineer, Office of Public Roads and Rural Engineering, U. S. Dept. of Agriculture, Washington, D. C. 1908

McCourt, Walter E., Dean, Schools of Engineering and Architecture, Professor of Geology, Washington University, St. Louis, Mo. 1922

McCullough, F. M., Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1910

McDaniel, Allen B., Educational Specialist, Advisory Board, General Staff, War Dept., 1729 Q St., N. W., Washington, D. C. 1907

McDiarmid, George Cox, Head, Dept. of Mathematics, Ohio Mechanic Institute, Cincinnati, O. 1919

McDonald, P. B., Assistant Professor of English, New York University, University Heights, New York, N. Y. 1917

McEachron, K. B., Instructor in Electrical Engineering, Purdue University, LaFayette, Ind. 1916

McGowan, John, Professor of Applied Mechanics, University of Toronto, Toronto, Ont., Canada 1914

McGrath, E. L., 1613 Grove St., Berkeley, Calif. 1916

McGrath, Frank P., Instructor in Advanced Mechanical Drawing, Purdue University, LaFayette, Ind. 1922

McGregor, Howard L., Assistant President, National Twist Drill & Tool Co., Detroit, Mich. 1921

McIntyre, Lewis W., Assistant Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1919

McKee, Ralph H., Professor of Chemical Engineering, Columbia University, New York, N. Y. 1919

McKergow, C. M., Professor of Mechanical Engineering, McGill University, Montreal, Canada 1913

McKibben, F. P., Professor of Civil Engineering, Union College, Schenectady, N. Y. 1904

McMillin, Emerson, Chairman, Board of Directors, American Light & Traction Co., and President of many Companies, Ramsey, N. J. (Life Member) 1911

McNair, F. W., President, Michigan College of Mines, Houghton, Mich. 1897

McNeilly, Robert H., Associate Professor of Civil Engineering, Vanderbilt University, Nashville, Tenn. 1919

McNown, W. C., Associate Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1915

McRae, A. L., Rolla, Mo. 1907

McWherter, M. C., 501 East 1st Ave., Derry, Pa. 1921

Macalpine, John H., Consulting Engineer, 5537 Hampton St., Pittsburgh, Pa. 1921

MACARTHUR, J. R., Associate Professor of English, California Institute of Technology, Pasadena, Calif. 1915

MACCRACKEN, J. H., President, Lafayette College, Easton, Pa. 1913

MACCULLOUGH, GLEASON H., Instructor in Mechanical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922

MACDONALD, S. L., Head of the Department of Mathematics, Colorado State Agricultural College, Ft. Collins, Colo. 1914

MACK, ALBERT J., Assistant Professor of Mechanical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1919

MACKAVANAGH, T. J., Professor of Electrical Engineering, Catholic University of America, Washington, D. C. 1916

MACKAY, H. M., Professor of Civil Engineering, McGill University, Montreal, Quebec, Canada 1914

MACKENZIE, C. J., Professor of Civil Engineering, University of Saskatchewan, Saskatoon, Sask., Canada 1915

MACKENZIE, WM. R., Professor of English, Washington University, St. Louis, Mo. 1922

MACNAUGHTON, EDGAR, Assistant Professor of Mechanical Engineering, Tufts College, Tufts College, Mass. 1916

MACNAUGHTON, JAS., Vice-President and General Manager, Calumet and Hecla Mines; Member Board of Control, Michigan College of Mines, Calumet, Mich. 1905

MACNUTT, BARRY, Professor of Physics, Lehigh University, Bethlehem, Pa. 1910

MACOMBER, G. S., 463 Auburn St., Buffalo, N. Y. 1904

MAGNUSSON, C. E., Professor of Electrical Engineering, Dean, College of Engineering, University of Washington, Seattle, Wash. 1907

MAGRUDER, WM. T., Professor of Mechanical Engineering, The Ohio State University, Columbus, O. 1893

MAIN, C. T., Consulting and Constructing Engineer, 14 Herrick St., Winchester, Mass. 1911

MALL, IVOR O., Assistant Professor of Mechanical Engineering, Tulane University, New Orleans, La. 1922

MALLORY, FRANCIS, Professor of Physics and Electrical Engineering, Virginia Military Institute, Lexington, Va. 1912

MANN, C. A., Professor of Chemical Engineering, School of Chemistry, University of Minnesota, Minneapolis, Minn. 1917

MANN, C. L., Professor of Civil Engineering, North Carolina State College of Agriculture and Engineering, West Raleigh, N. C... 1917

MANN, C. R., 350 State, War and Navy Building, Washington, D. C. 1914

MANN, HORACE T., Professor of Metallurgy, Montana State School of Mines, Butte, Mont. 1919

MARK, BOBERT M., R. F. D. No. 4, Westerville, Ohio. 1919
MARKER, J. R., Chief Engineer, Ohio Paving Brick Mfgrs. Association, Columbus, O. 1913
MARKS, L. S., Professor of Mechanical Engineering, Harvard University, Cambridge, Mass. 1909
MARQUIS, F. W., Professor of Steam Engineering, Ohio State University, Columbus, Ohio 1910
MARSDEN, RAYMOND R., Professor of Civil Engineering, Dartmouth College, Hanover, N. H. 1922
MARSTON, ANSON, Dean of the Division of Engineering and Director of the Engineering Experiment Station, Iowa State College, Ames, Ia. 1894
MARTEL, R. R., Throop College, Pasadena, Calif. 1915
MARTENIS, J. VAN S., Associate Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1908
MARTIN, EDWIN R., Assistant Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1920
MARTIN, HARRISON A., Instructor, Dept. of Mechanical Engineering, North Carolina State College of A. & E., State College Station, Raleigh, N. C. 1922
MARTIN, T. C., Advisory Secretary, The National Electric Light Association, 29 West 39th St., New York, N. Y. 1909
MARTIN, W. H,, Professor of Heat Engineering, Oregon Agricultural College, Corvallis, Ore. 1913
MARVIN, HENRY H., Professor of Physics, Brace Laboratory of Physics, University of Nebraska, Lincoln, Nebr. 1914
MARX, C. D., Professor of Civil Engineering, Leland Stanford Junior University, Stanford University, Calif. 1893
MATHESON, K. G., President, Drexel Institute, Philadelphia, Pa. 1916
MATHEWS, RAYMOND, Union College, Schenectady, N. Y. 1918
MATHEWSON, CHAMPION H., Professor of Metallurgy, Yale University, New Haven, Conn. 1921
MAURER, E. R., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1897
MAVITY, V. T., Instructor in Electrical Engineering, University of Cincinnati, Cincinnati, O. 1917
MAY, CHAS. C., Instructor in Civil Engineering, University of Washington, Seattle, Wash. 1912
MEAD, D. W., Professor of Hydraulic and Sanitary Engineering, University of Wisconsin, Madison, Wis. 1908
MEEKER, W. H., Professor of Mechanical Engineering, Iowa State College, Ames, Ia. 1903
MEES, C. L., President Emeritus, Rose Polytechnic Institute, Terre Haute, Ind. 1894

MÉHELY, KÁLMÁN, Professor on the University for Economical Sciences in Budapest, Hungary. 1909

MEIKLEJOHN, ROBERT, Assistant Professor of Engineering Drawing, Ohio State University, Columbus, O. 1909

MELLER, H. B., Dean, School of Mines, Professor of Mining, University of Pittsburgh, Pittsburgh, Pa. 1915

MENDENHALL, T. C., 329 N. Chestnut St., Ravenna, O. (Honorary Member) 1895

MERRILL, JASON L., Associate Professor of Chemistry, University of Maine, Orono, Me. 1922

MERRILL, J. F., Director of the Utah State School of Mines and Engineering; Professor of Physics and Electrical Engineering, University of Utah, Salt Lake City, Utah 1907

MERRIMAN, MANSFIELD, 1071 Madison Ave., New York, N. Y. 1893

MESTON, CHAS. R., First Vice President, (Retired) The Emerson Electric Mfg. Co., St. Louis, Mo.; 525 West End Ave., New York City. 1922

MICKEY, CLARK E., Chairman, Civil Engineering Dept., University of Nebraska, Lincoln, Nebr. 1912

MILES, EGBERT J., Assistant Professor of Mathematics, Yale University, New Haven, Conn. 1922

MILLAR, A. V., Assistant Dean, College of Engineering, Associate Professor of Drawing and Descriptive Geometry, University of Wisconsin, Madison, Wis. 1914

MILLER, DAYTON C., Professor of Physics, Case School of Applied Science, Cleveland, O. 1907

MILLER, HUGH, Professor of Civil Engineering, George Washington University, Washington, D. C. 1909

MILLER, JAMES S., Adjunct Professor of Experimental Engineering, University of Virginia, University, Va. 1921

MILLER, S. O., Assistant Professor of Engineering Drafting, Columbia University, New York, N. Y. 1917

MILLS, JOHN, Assistant Personnel Manager, Engineering Dept., Western Electric Co. Inc., 463 West St., New York City..... 1921

MING, FREDERICK W., Instructor in Mechanical Engineering, The Polytechnic Institute of Brooklyn, Brooklyn, N. Y. 1918

MINSHALL, ROBERT E., Associate Professor of Structural Engineering, The Pennsylvania State College, State College, Pa. 1921

MITCHELL, GROVER I., Assistant Professor of Mechanical Engineering, Extension Division, University of Wisconsin, Madison, Wis. 1918

MITCHELL, LOUIS, Professor of Civil Engineering, Syracuse University, Syracuse, N. Y. 1913

MOFFETT, JOHN H., Instructor in Foundry Practice, University of Minnesota, Minneapolis, Minn. 1922
MONNINGER, OSCAR E., Instructor in Drawing, Purdue University, LaFayette, Ind. 1922
MONROE, W. K., Chief Engineer, The Brown Hoisting Machinery Co., Cleveland, O. 1911
MOODY, L. F., Consulting Engineer, Assistant to Vice President, Wm. Cramp & Sons Ship and Engine Building Co., Philadelphia, Pa. 1912
MOOMAW, DALTON, 202 Dean Bldg., South Bend, Ind. .....
MOORE, G. R., Assistant Construction Engineer, New Jersey State Highway Dept., Manasquan, N. J. 1913
MOORE, H. F., Professor of Engineering Materials, University of Illinois, Urbana, Ill. 1905
MOORE, STANLEY H., 5601 Admiral Boulevard, Seattle, Wash..... 1902
MORE, CHAS. C., Professor of Civil Engineering, and Head Civil Engineering Department, University of Washington, Seattle, Wash. 1901
MORECROFT, J. H., Associate Professor of Electrical Engineering, Columbia University, New York, N. Y. 1908
MORGAN, ARTHUR E., President, Dayton Morgan Engineering Co., Dayton; President, Antioch College, Yellow Springs, O. 1921
MORITZ, HAROLD K., Assistant Instructor, University of Nebraska, Lincoln, Nebr. 1921
MORLEY, RAYMOND K., Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1922
MORRILL, J. B., Manager, Reed Reduction Co., Palo Alto, Calif. ... 1914
MORRIS, C. T., Professor of Structural Engineering, The Ohio State University, Columbus, O. 1907
MORRIS, J. J., Professor of Mechanical Constructive Practice, University of Pennsylvania, Philadelphia, Pa. 1912
MORRISON, I. F., Assistant Professor of Structural Engineering, University of Alberta, Edmonton South, Alta, Canada 1912
MORRISON, ROGER L., Secry.-Treas. and General Manager, Concrete Products Co., Birmingham, Ala. 1914
MORROW, L. W. W., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1917
MORSE, J. L., Professor of Mechanical Engineering, Colorado School of Mines, Golden, Colo. 1910
MORSS, EVERETT, 115 Commonwealth Ave., Boston, Mass. 1910
MOSER, CHAS., Assistant Professor of Mechanics of Materials and Hydraulics, Leland Stanford Jr. University, Stanford University, Calif. 1918

Moss, S. A., Mechanical Engineer, Thomson Laboratory, General Electric Co., Lynn, Mass. 1911

Mott, W. E., Director College of Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1907

Moyer, J. A., Director of the Dept. of University Extension, Massachusetts Department of Education, Boston, Mass. 1904

Muhlfeld, J. E., Sherbrooke Road, Scarsdale, N. Y. 1911

Munro, G. W., Professor of Thermodynamics, Purdue University, LaFayette, Ind. 1915

Munro, M. S., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1914

Munroe, H. S., Emeritus Professor of Mining, Columbia University, Litchfield, Conn. 1893

Murdock, H. E., Agricultural Engineer, Head of Agricultural Engineering Department, University of Montana, Bozeman, Mont. 1910

Murphy, R. K., Care of P. R. Cole, Sydney Teachers College, Sydney, Australia 1914

Murray, D. A., Professor of Applied Mathematics, McGill University, Montreal, Canada 1910

Murrie, J. L., Consulting Engineer, 74 Broadway, New York, N. Y.

Myers, Howard D., Assistant Professor of Drawing and Descriptive Geometry, University of Minnesota, Minneapolis, Minn. 1922

Nagle, J. C., Professor of Civil Engineering, Dean of Engineering and Director, Engineering Experiment Station, A. & M. College of Texas, College Station, Tex. 1897

Nagler, F. A., Assistant Professor of Mechanics and Hydraulics, State University of Iowa, Iowa City, Ia. 1921

Nash, C. A., Assistant Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1913

Nash, Phillip C., Professor of Civil Engineering, Antioch College, Yellow Springs, O. 1921

Nassau, J. J., Assistant Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1921

Navarro, J. J. M. L., Assistant Electrical Engineer, Philippine Engineering Co., 121 L. Guerrero, Ermite, Manila, P. I. ... 1922

Needy, John A., Instructor in Mechanical Engineering, Purdue University, LaFayette, Ind. 1919

Neel, Wm. T., Assistant to Supt. of Installation Dept., Philadelphia Electric Co., Philadelphia, Pa. 1914

Neff, F. H., Professor of Civil Engineering, Case School of Applied Science, Cleveland, O. 1895

Nelson, J. R., Associate Professor of English in the Colleges of Engineering and Architecture, University of Michigan, Ann Arbor, Mich. 1914

NEWCOMBE, J. L., Professor of Civil Engineering, University of Virginia, University, Va. 1915
NEWKIRK, B. L., Research Laboratory, General Electric Co., Schenectady, N. Y. 1908
NEWMAN, C. M., Professor of English, Virginia Polytechnic Institute, Blacksburg, Va. 1917
NEWTON, GUY D., Professor of Mechanical Engineering, University of Missouri, Columbia, Mo. 1913
NICHOLS, CHAS. S., Associate Professor of Civil Engineering, in charge of Sanitary Engineering, Iowa State College, Ames, Ia.. 1915
NOLD, H. E., Professor of Mine Engineering, The Ohio State University, Columbus, O. 1916
NORRIS, EARLE B., Dean of Engineering, Montana State College, University of Montana, Bozeman, Mont. 1907
NORRIS, H. H., Managing Editor, *Electric Railway Journal*, 10th Ave. at 36th St., New York, N. Y. 1900
NORMAN, CARL A., Professor of Machine Design, The Ohio State University, Columbus, O. 1918
NORTHCOTT, J. A., Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. 1915
NORTON, A. E., Associate Professor of Mechanical Engineering Drawing, Harvard University, Cambridge, Mass. 1910
NORTON, C. L., Massachusetts Institute of Technology, Cambridge, Mass. 1908
NORWOOD, C. J., Head of Dept. of Mines and Metallurgy College of Engineering, University of Kentucky, Lexington, Ky. 1907
NOTTINGHAM, A. R., State College of Washington, Pullman, Wash. 1910
NUGENT, P. C., 829 N. Tyndall Ave., Tucson, Ariz. 1914
NYSWANDER, R. E., Professor of Physics, University of Denver, Denver, Colo. 1912
OCKERBLAD, A. M., Professor of Civil Engineering, University of Kansas, Lawerence, Kans. 1911
OHLE, E. L., Professor of Mechanical Engineering, Washington University, St. Louis, Mo. 1905
OLBRICH, E. R., Construction Engineer, North Carolina State Highway Commission, Raleigh, N. C. 1920
OLSEN, TINIUS, President, Tinius Olsen Testing Machine Co., 500 N. 12th St., Philadelphia, Pa. 1907
OLSON, O. A., Assistant Professor of Mechanical Engineering, Iowa State College, (706 Wilson Ave.,) Ames, Ia. 1915
ORBECK, MARTIN J., Assistant Professor of Descriptive Geometry and Drawing, College of Engineering, University of Michigan, Ann Arbor, Mich. 1920

1915 O'Rourke, Chas. E., Instructor in Bridge Engineering, Cornell University, Ithaca, N. Y. 1922

1908 Orth, H. D., Associate Professor of Mechanical Drawing, University of Wisconsin, Madison, Wis. 1910

1917 Osborne, L. A., Vice-President, Westinghouse Electric & Mfg. Co., 165 Broadway, New York, N. Y. 1911

1913 O'Shaughnessy, Louis, Professor of Applied Mathematics, Virginia Polytechnic Institute, Blacksburg, Va. 1912

1915 Ostrander, J. E., Professor of Mathematics and Civil Engineering, Massachusetts Agricultural College, Amherst, Mass. 1894

1916 Overholt, Harley G., Instructor in Mathematics, University of Minnesota, Minneapolis, Minn. 1922

1907 Owens, R. B., Secretary of The Franklin Institute, Philadelphia, Pa. 1894

1900 Paine, Ellery B., Professor of Electrical Engineering, Head of the Department, University of Illinois, Urbana, Ill. 1911

1918 Paine, Frank D., Professor of Electrical Engineering, Iowa State College, Ames, Ia. 1915

1915 Palmer, C. I., Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill. 1922

1910 Palsgrove, Grant K., Professor of Hydraulic Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1918

1908 Parcel, J. I., Professor of Structural Engineering, University of Minnesota, Minneapolis, Minn. 1910

1907 1910 1914 Park, C. F., Professor of Mechanism, Director of the Mechanical Laboratories, Director of Lowell Institute School for Industrial Foremen, Massachusetts Institute of Technology, Cambridge, Mass. 1903

1912 Park, C. W., Professor of English, College of Engineering and Commerce, University of Cincinnati, Cincinnati, O. 1915

1911 Parker, George S., Instructor in Electrical Engineering, University of Illinois, Urbana, Ill. 1922

1905 Parker, J. C., Professor of Electrical Engineering, University of Michigan, Ann Arbor, Mich. 1916

1920 Parkin, J. H., Assistant Professor of Design, University of Toronto, Toronto, Ontario, Canada 1915

1907 Parks, C. W., Rear Admiral, United States Navy, Retired, 1829 Mintwood Place, Washington, D. C. 1911

1915 Parmer, J. F., Instructor in Surveying, Purdue University, Lafayette, Ind. 1921

Parr, S. W., Professor of Applied Chemistry, University of Illinois, Urbana, Ill. 1912

1920 Parsons, F. M., Professor of Engineering, Whittier College, Whittier, Calif. 1919

PATTEN, W. E., Professor of Civil Engineering, Tangshan Engineering College, Tangshan, North China 1915

PATTERSON, A. H., Professor of Physics and Dean, School of Applied Science, University of North Carolina, Chapel Hill, N. C. 1919

PATTERSON, GEORGE W., Professor of Engineering Mechanics, University of Michigan, Ann Arbor, Mich. 1921

PATTERSON, L. L., Professor of Electrical Engineering, Supt. of Electrical Service, Mississippi A. & M. College, Agricultural College, Miss. 1915

PAUL, C. E., Professor of Mechanics, Armour Institute of Technology, Chicago, Ill. 1907

PAULL, NORMAN M., Professor of Drawing, University of North Carolina, Chapel Hill, N. C. 1920

PAWLOWSKI, FELIX W., Associate Professor of Aeronautical Engineering, University of Michigan, Ann Arbor, Mich. 1921

PEACOCK, FRANK E., Instructor, University of Minnesota, Minneapolis, Minn. 1922

PEARCE, C. E., Assistant Professor of Applied Mechanics and Machine Design, Kansas State Agricultural College, Manhattan, Kans. 1917

PEARSALL, PLATT A., Instructor in Chemistry, University of Maine, Orono, Me. 1922

PEARSON, R. A., President, Iowa State College, Ames, Ia. 1914

PEGRAM, GEORGE B., Dean, School of Mines, Engineering and Chemistry, Professor of Physics, Columbia University, New York, N. Y. 1918

PEHRSON, E. W., Assistant Professor of Mathematics, University of Utah, Salt Lake City, Utah 1915

PENCE, W. D., Member, Engineering Board, Interstate Commerce Commission, Chicago, Ill. 1895

PENDER, HAROLD, Professor-in-charge, Electrical Engineering, University of Pennsylvania, Philadelphia, Pa. 1909

PENN, J. C., Assistant to the Dean and Examiner, Armour Institute of Technology, Chicago, Ill. 1915

PERRY, C. F., Supervisor of Manual and Industrial Training, Milwaukee Public Schools, Milwaukee, Wis. 1907

PERRY, F. G., 44 Winslow Road, Brookline, Mass. 1916

PERRY, W. G., Associate Professor of English, Georgia School of Technology, Atlanta, Ga. 1919

PERRY, WILLIAM S., Assistant Professor of Physics and Electrical Engineering, University of Florida, Gainesville, Fla. 1918

PERSON, F. G., Professor of Physics, Head, Dept. of Physics and Electrical Engineering, State Agricultural College, Fort Collins, Colo. 1918

PETERSON, JOHN C., Associate Professor of Education, Kansas State Agricultural College, Manhattan, Kans. 1921

PETTEE, C. H., Dean, New Hampshire College, Durham, N. H. 1898

PFEIF, G. H., Secretary, Student Committee, General Electric Co., Schenectady, N. Y. 1918

PHALEN, HAROLD R., Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill. 1914

PHELON, J. O., Professor of Electrical Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1902

PHILBRICK, H. S., Professor of Mechanical Engineering, Northwestern University, Evanston, Ill. 1913

PHILLIPS, E. B., Electrical Engineering Dept., U. S. Naval Academy, Annapolis, Md. 1919

PHILLIPS, HUBERT, Instructor in Economics, Case School of Applied Science, Cleveland, O. 1922

PHILLIPS, J. D., Acting Business Manager, University of Wisconsin, Madison, Wis. 1899

PINNEY, J. C. JR., Dean, College of Applied Science and Engineering, Marquette Unversity, Milwaukee, Wis. 1919

PINTO, ANTHONY, Assistant Professor of Electrical Engineering, Cooper Union, New York, N. Y. 1913

PIPER, FRED. F., Professor of Physics, Clarkson College of Technology, Potsdam, N. Y. 1915

PLANK, WILLIAM B., Head, Dept. of Mining Engineering, Lafayette College, Easton, Pa. 1921

PLANT, L. C., Head of the Department of Mathematics, Michigan Agricultural College, East Lansing, Mich. 1914

PLUMMER, H. C., Instructor, Dept. of Mechanics, Case School of Applied Science, Cleveland, O. 1921

POND, FRANCIS J., Professor of Chemistry and Director of Chemical Laboratory, Stevens Institute of Technology, Hoboken, N. J.. 1912

POORMAN, A. P., Associate Professor of Applied Mechanics, Purdue University, LaFayette, Ind. 1907

PORTER, CHAS. T., Aeronautical Mechanical Engineer, Naval Aircraft Factory, Philadelphia, Pa. 1912

PORTER, DWIGHT, 149 Hawthorne St., Malden, Mass. 1893

PORTER, F. M., Assistant Professor of Engineering Drawing, University of Illinois, Urbana, Ill. 1912

PORTER, J. B., Professor of Mining Engineering, McGill University, Montreal, Quebec, Canada 1904

PORTER, J. F., President, Kansas City Power & Light Co., Kansas City, Mo. 1912

PORTER, J. MADISON, Consulting Engineer, Easton, Pa. 1893

PORTER, R. A., Professor of Physics, Syracuse University, Syracuse, N. Y. 1908
PORTER, R. H., N. J. Zinc Co., Palmerton, Pa. 1915
POTTER, A. A., Dean, Schools of Engineering, Purdue University, LaFayette, Ind. 1908
POTTER, JOHN C., 257 Maple Ave., Oak Park, Ill. 1913
POTTS, CLYDE, Civil and Sanitary Engineer, 30 Church St., New York City 1922
POUND, J. H., Assistant Professor of Mechanical Engineering, Rice Institute, Houston, Tex. 1916
POWERS, W. P., Assistant Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914
PRENTICE, D. B., Head of Mechanical Engineering Department, Lafayette College, Easton, Pa. 1912
PRESS, ABRAHAM, Assistant Professor of Electrical Engineering, University of California, Berkeley, Calif. 1916
PRESTON, JACK D., Assistant Instructor, Massachusetts Institute of Technology, Cambridge, Mass. 1922
PRICE, CHAS. B., Instructor in Mathematics and Drawing, Boys Trade School; Assistant Supervisor of Evening Trade School, Worcester Trade School, Worcester, Mass. 1914
PRICE, EDWARD P., Assistant in Electrical Engineering, University of Illinois, Urbana, Ill. 1922
PRIESTER, GEORGE C., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1920
PRIME, A. C., Consulting Engineer, 1008 Spruce St., Philadelphia, Pa. (Life Member) 1910
PRINE, CHARLES W., Assistant Professor of Physics, Carnegie Institute of Technology, Pittsburgh, Pa. 1918
PRITCHARD, S. R., Dean of Engineering and Professor of Electrical Engineering, Virginia Polytechnic Institute, Blacksburg, Va... 1914
PROBERT, F. H., Dean, College of Mining, Professor of Mining, University of California, Berkeley, Calif. 1917
PROVINE, LORING H., Professor of Architectural Engineering, in charge of Dept. of Architecture, University of Illinois, Urbana, Ill. 1920
PRYOR, F. L., Professor of Mechanical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1908
PUFFER, LOUIS B., Assistant Professor of Civil Engineering, University of Vermont, Burlington, Vt. 1922
PUGH, EMERSON, Instructor in Electrical Engineering, Purdue University, LaFayette, Ind. 1921
PULLEN, M. W., Associate in Electrical Engineering, Johns Hopkins University, Baltimore, Md. 1909

PURYEAR, CHARLES, Dean and Professor of Mathematics, Texas A. and M. College, College Station, Texas 1901

QUIGLEY, EDWARD P., Instructor in Forge and Heat Treatment, University of Minnesota, Minneapolis, Minn. 1922

RABER, B. F., Professor of Mechanical Engineering, University of California, Berkeley, Calif. 1915

RADEBAUGH, GUSTAV H., Associate in Factory Management and Machine Shop Practice, Assistant Manager, Shop Laboratories, University of Illinois, Urbana, Ill. 1914

RALSTON, J. C., Consulting Engineer, also Vice-President and Consulting Engineer, Pacific Coast Pipe Co. of Seattle, 2421 W. Mission Ave., Spokane, Wash. 1910

RANDALL, HARRISON M., Professor of Physics, University of Michigan, Ann Arbor, Mich. 1921

RANDALL, J. A., Secretary, Advisory Board, War Dept, 353 State, War and Navy Bldg., Washington, D. C. 1911

RAPPEL, U. J., Professor of Electrical Engineering, University of Dayton, Dayton, O. 1919

RATH, EDWIN R., Assistant Professor of Electrical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1919

RAYMOND, F. N., Professor of Rhetoric, University of Kansas, Lawrence, Kans. 1910

RAYMOND, H. M., Acting President, Armour Institute of Technology, Chicago, Ill. 1903

RAYMOND, W. G., Dean of the College of Applied Science and Professor of Engineering, State University of Iowa, Iowa City, Ia. 1893

RAYNER, WM. H., Assistant Professor of Surveying, University of Illinois, Urbana, Ill. 1913

REBER, LOUIS E., Dean, University Extension Division, University of Wisconsin, Madison, Wis. 1893

REED, K. W., In charge of the Experimental and Research Dept., The Warner & Swasey Co., Cleveland, O. 1915

REED, PERCY L., Professor of Civil Engineering, University of Florida, Gainesville, Fla. 1914

REID, CLARENCE E., Professor of Electrical Engineering, Kansas State Agricultural College, Manhattan, Kans. 1907

REID, ERNEST A., Associate in Electrical Engineering, University of Illinois, Urbana, Ill. 1922

REMICK, B. L., Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1915

REW, IRWIN, Trustee of Northwestern University, 217 Dempster St., Evanston, Ill. 1913

REYBOLD, EUGENE, Major, Coast Artillery Corps, Constructing Quartermaster, Fort Monroe, Va. 1919
REYNOLDS, JAMES A., Instructor in Electrical Engineering, Tufts College, Tufts College, Mass. 1922
REYNOLDS, JOSEPH B., Associate Professor of Mathematics and Astronomy, Lehigh University, Bethlehem, Pa. 1920
RICE, HARRIS, Assistant Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass. 1919
RICE, H. A., Professor of Mechanics and Structural Engineering, University of Kansas, Lawrence, Kans. 1915
RICE, LEPINE H., Instructor in Mathematics, Massachuestts Institute of Technology, Cambridge, Mass. 1918
RICH, DANIEL L., Assistant Professor of Physics, University of Michigan, Ann Arbor, Mich. 1921
RICHARDS, CHARLES RUSS, President, Lehigh University, Bethlehem, Pa. 1895
RICHARDS, CHAS. RUSSELL, Director, Cooper Union, New York, N. Y. 1904
RICHARDS, T. E., Instructor, Michigan College of Mines, Houghton, Mich. 1910
RICHARDS, WM. H., Instructor in Manual Training and Pattern Making, University of Minnesota, Minneapolis, Minn. 1910
RICHARDSON, G. R., 42 Webster St., Allston, Mass. 1912
RICHARDSON, M. R., Durham, N. C. 1910
RICHEY, J. J., Professor of Structural Engineering, Texas A. & M. College, College Station, Tex. 1910
RICHTER, A. W., President, Price Mfg. Co., Yakima, Wash. 1894
RICKER, CLAIRE W., Assistant Professor of Electrical Engineering Massachusetts Institute of Technology, Cambridge, Mass. 1921
RICKER, N. C., Emeritus Professor of Architecture, University of Illinois, Urbana, Ill. 1894
RIDDERVOLD, A. S., Structural Designer for Schmidt, Garden & Martin, Architects, 3658 N. Harding Ave., Chicago, Ill. 1912
RIESENBERGER, ADAM, Registrar and Treasurer, Stevens Institute of Technology, Hoboken, N. J. 1908
RIETZ, HENRY LEWIS, Professor and Head of Department of Mathematics, The State University of Iowa, Iowa City, Ia. 1919
RIGGS, H. E., Professor of Civil Engineering, University of Michigan, Ann Arbor, Mich. 1913
RIGGS, N. C., Professor of Applied Mechanics, Carnegie Institute of Technology, Pittsburgh, Pa. 1907
RILLIET, CHARLES E., Care of Washburne Continuation School, 2311 Commonwealth Ave., Chicago, Ill. 1919

RISLEY, W. J., Professor of Mathematics, James Millikin University, Decatur, Ill. 1910

RITTENHOUSE, L. H., Professor of Engineering, Haverford College, Haverford, Pa. 1906

ROARK, RAYMOND J., Associate Professor of Mechanics, University of Wisconsin, Madison, Wis. 1919

ROBBINS, A. G., Professor of Topographical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1894

ROBERT, JAMES M., Professor of Machine Design, Tulane University, New Orleans, La. 1922

ROBERTS, EMERSON B., Educational Dept., Westinghouse E. & M. Co., East Pittsburgh, Pa. 1919

ROBERTS, MILNOR, Dean of the College of Mines, and Professor of Mining Engineering and Metallurgy, University of Washington, Seattle, Wash. 1910

ROBERTSON, BURTON J., Assistant Director, Experiment Engineering Laboratory, Assistant Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1922

ROBERTSON, JOHN E., County Road Engineer of Shelby County, Shelbyville, Ky. 1914

ROBINSON, EDW., Professor of Mechanical Engineering, University of Vermont, Burlington, Vt. 1899

ROBINSON, M. B., Director of Engineering, Evansville College, Evansville, Ind. 1915

ROCKWELL, E. H., Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1907

ROCKWELL, ROBERT L., Consulting Engineer, Suite 955–6–7 Empire Building, Seattle, Wash. 1915

RODHOUSE, T. J., Professor of Hydraulic Engineering, University of Missouri, Columbia, Mo. 1904

RODMAN, W. S., Professor of Electrical Engineering, University of Virginia, University, Va. 1915

ROE, J. W., Professor of Industrial Engineering, New York University, New York City 1908

ROESCH, DANIEL, Associate Professor of Gas Engineering, Armour Institute of Technology, Chicago, Ill. 1922

ROGERS, C. E., Professor of Civil Engineering, Trinity College, Hartford, Conn. 1917

ROHRER, A. L., Electrical Superintendent, Schenectady Works, General Electric Co., Schenectady, N. Y. 1911

ROLLINS, E. B., Assistant Professor of Electrical Engineering, Tufts College, Tufts College, Mass. 1912

RONDINELLA, L. F., Head of Department of Drawing and Design, West Philadelphia High School for Boys, Philadelphia, Pa..... 1903

ROOD, JAS. T., Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1914
ROOT, R. E., Professor of Mathematics, Post-Graduate School, U. S. Naval Academy, Annapolis, Md. 1914
RORTY, M. C., Vice-President, Bell Telephone Securities Co., 195 Broadway, New York, N. Y. 1912
ROSEBRUGH, T. R., Professor of Electrical Engineering, University of Toronto, Toronto Ontario, Canada. 1896
ROSING, ANTON S., Civil Engineer, 7210 Pingree St., Chicago, Ill. 1911
ROWE, WATER E., Major Professor of Civil Engineering, Drexel Institute, Philadelphia, Pa. 1918
ROWELL, L. D., Associate Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910
ROWLEY, F. B., Professor of Mechanical Engineering; Director, Experimental Engineering Laboratories, University of Minnesota, Minneapolis, Minn. 1910
RUBENKOENIG, HARRY, Associate Professor of Railway Mechanical Engineering, Purdue University, LaFayette, Ind. 1920
RUBEY, H. K., Assistant Professor of Civil Engineering, University of Washington, Seattle, Wash. 1917
RUNK, JOHN C., Instructor in Mechanical Engineering, Pennsylvania State College, State College, Pa. 1920
RUNNING, THEODORE R., Associate Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1918
RUSH, HARRY S., Assistant Professor of Mechanical Engineering, North Dakota Agricultural College, North Fargo, N. D. 1919
RUSSELL, W. B., Director, Franklin Union, Boston, Mass. 1903
RYAN, H. J., Professor of Electrical Engineering, Leland Stanford Junior University, Stanford University, Calif. 1901
RYAN, W. T., Associate Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1911
SADLER, H. C., Professor of Naval Architecture and Marine Engineering, University of Michigan, Ann Arbor, Mich. 1907
SANBORN, FRANK E., U. S. A. General Hospital, Oteen, N. C. 1899
SANDERS, WILLIAM B., Instructor in Applied Mechanics, Purdue University, LaFayette, Ind. 1922
SANDERS, W. H., Assistant Professor and Acting Head of Farm Engineering, Kansas State Agricultural College, Manhattan, Kans. 1915
SARASON, SAMUEL D., Associate Professor of Civil Engineering, L. C. Smith College of Applied Science, Syracuse University, N. Y. 1918

SAUERS, JOHN A., 38 Hemenway, Suite 82, Boston, Mass. 1921
SAVANT, D. P., Care of C. Packing Co., Clinton, Ind. 1917
SAVILLE, THORNDIKE, Associate Professor of Hydraulic and Sanitary Engineering, University of North Carolina, Chapel Hill, N. C. 1915
SAYRE, M. F., Assistant Professor of Applied Mechanics, Union College, Schenectady, N. Y. 1917
SCHEALER, S. R., Associate Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1911
SCHMIDT, EDWARD C., Professor of Railway Engineering, 101 Transportation Bldg., University of Illinois, Urbana, Ill. 1907
SCHNEIDER, HERMAN, Professor of Civil Engineering and Dean of the College of Engineering, University of Cincinnati, Cincinnati, O. 1903
SCHNEIDER, HYRUM, Assistant Professor of Geology, University of Utah, Salt Lake City, Utah 1922
SCHRODER, FREDERICK F., Instructor in Civil Engineering, University of Cincinnati, Cincinnati, O. 1919
SCHUERMAN, W. H., Dean of the School of Engineering and Professor of Pure and Applied Mathematics, Vanderbilt University, Nashville, Tenn. 1895
SCHWARZE, C. T., Assistant Professor of Civil Engineering, New York University, New York, N. Y. 1912
SCIPIO, L. A., Dean and Professor of Mechanical Engineering, Robert College, Constantinople, Turkey 1910
SCOTT, C. F., Professor of Electrical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1904
SCOTT, LUTHER C., Associate Professor of Industrial Education, Toledo University, Toledo, O. 1919
SCULLEN, A. J., Associate Professor of Civil Engineering, In charge of Dept. of Civil Engineering, Catholic University of America, Washington, D. C. 1916
SEARSON, J. W., Professor of English, Kansas State Agricultural College, Manhattan, Kans. 1915
SEATON, R. A., Dean, Division of Engineering, Kansas State Agricultural College, Manhattan, Kans. 1912
SEAVER, H. L., Associate Professor of English, Massachusetts Institute of Technology, Cambridge, Mass. 1908
SEAVEY, FRANK E., Professor of English, Tufts College, Tufts College, Mass. 1919
SECHRIST, GILBERT H., Associate Professor of Electrical Engineering, A. & M. College of Texas, College Station, Tex. 1921
SEELY, F. B., Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1913

SEERY, FRANCIS J., Professor of Civil Engineering, Cornell University, Ithaca, N. Y. 1908
SELVIDGE, ROBERT W., Professor of Industrial Education, University of Missouri, Columbia, Mo. 1922
SETCHELL, HORACE E., Professor of Mechanical Engineering, University of Porto Rico, Mayaguez, P. R. 1922
SEWARD, H. L., Assistant Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn.. 1910
SEXTON, F. H., President of the Nova Scotia Technical College, and Director of Technical Education for Nova Scotia, Halifax, Nova Scotia 1908
SEYFERT, S. S., Associate Professor of Electrical Engineering, Lehigh University, Bethlehem, Pa. 1908
SHAAD, G. C., Professor of Electrical Engineering, University of Kansas, Lawrence, Kans. 1907
SHANE, ADOLPH, Professor and Head, Trades and Industries Dept., Iowa State College, Ames, Ia. 1907
SHANK, JACOB R., Assistant Professor of Civil Engineering, The Ohio State University, Columbus, O. 1919
SHATTUCK, E. L., Professor of Applied Mechanics and Thermodynamics, Louisiana Industrial Institute, Ruston, La. 1914
SHATTUCK, H. B., Associate Professor of Railroad Engineering, Pennsylvania State College, State College, Pa. 1906
SHAW, EDWIN A., Assistant Professor of Education, Graduate School of Education, Harvard University, Cambridge, Mass. 1921
SHAW, H. B., Educational Director, Doherty Training Schools, Toledo, Denver, Bartlesville, 60 Wall St., New York, N. Y. 1907
SHEEHAN, THOMAS W., Instructor in English, Tufts College, Tufts College, Mass. 1919
SHELDON, S. R., Dean and Professor of Electrical Engineering, Chiao Tung University, Nanyang College, Shanghai, China 1914
SHEPARDSON, G. D., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1895
SHEPARDSON, J. E., Instructor in Electrical Engineering, The Ohio State University, Columbus, O. 1917
SHEPPARD, H. S., Dept. of Development & Research, American Telephone & Telegraph Co., 195 Broadway, New York, N. Y..... 1914
SHERMAN, C. E., Professor of Civil Engineering, Ohio State University, Columbus, Ohio 1907
SHIPLEY, S. C., Professor of Mechanical Engineering, and Superintendent of Shops, University of Minnesota, Minneapolis, Min. 1908
SHOOP, C. F., Associate Professor of Mechanical Engineering, University of Minnesota, Minneapolis, Minn. 1906

SHORT, R. L., Principal of High Schools, 1313 Herbert St., St. Louis, Mo. 1902

SIBLEY, F. H., Dean, College of Engineering, University of Nevada, Reno, Nev. 1910

SILER, RODERICK W., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

SILVEY, O. W., Professor of Physics, A. & M. College of Texas, College Station, Tex. 1917

SIMMERING, S. L., Associate Professor of Mechanical Engineering, University of Colorado, Boulder, Colo. 1913

SIMS, STUART, Professor and Head of Civil Engineering, School of Engineering, Oregon State Agricultural College, Corvallis, Ore. 1919

SJOGREN, OSCAR W., Professor of Agricultural Engineering, College of Agriculture, Lincoln, Nebr. 1917

SKELTON, R. H., Assistant Professor of Mathematics and Surveying, Allegheny College, Meadville, Pa. 1914

SKILES, W. V., Professor of Mathematics, Georgia School of Technology, Atlanta, Ga. 1919

SLAYMAKER, P. K., Professor of Machine Design, University of Nebraska, Lincoln, Nebr. 1910

SLEESMAN, L. C., Professor of Chemical Engineering, Ohio Northern University, Ada, O. 1917

SLICHTER, W. I., Professor of Electrical Engineering, Columbia University, New York, N. Y. 1911

SLOCUM, R. H., Professor of Civil Engineering, North Dakota Agricultural College, Agricultural College, N. D. 1903

SLUSS, A. H., Associate Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1915

SMITH, A. L., Professor of Drawing and Machine Design, Worcester Polytechnic Institute, Worcester, Mass. 1902

SMITH, H. B., Professor of Electrical Engineering, and Director of Electrical Engineering Dept., Worcester Polytechnic Institute, Worcester, Mass. 1898

SMITH, HARRY E., Professor of Steam Engineering, Texas A. & M. College, College Station, Tex. 1895

SMITH, H. S. S., Professor of Civil Engineering, Princeton University, Princeton, N. J. 1894

SMITH, JAMES E., Assistant Professor of Civil Engineering, University of Illinois, Urbana, Ill. 1910

SMITH, J. HAMMOND, Professor of Civil Engineering, University of Pittsburgh, Pittsburgh, Pa. 1910

SMITH, M. VAN G., Professor, Division of Engineering, University of Delaware, Newark, Del. 1922

SMITH, P. F., Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. 1908
SMITH, RALPH A., Instructor in Mechanical Engineering, Tufts College, Tufts College, Mass. 1922
SMITH, RICHARD R., Manager, College Department, The Macmillan Company, 66 Fifth Ave., New York, N. Y. 1914
SMITH, THOMAS D., Box 364, Newark, Dela. 1920
SMULL, T. J., JR., Executive Secretary, Ohio Northern University, Ada, O. 1907
SMYTH, H. L., Professor of Mining and Metallurgy and Director of the Mining and Metallurgical Laboratories, Harvard University, Cambridge, Mass. 1907
SNADER, DAVID L., South Dakota State College, Brookings, S. D... 1918
SNAVELY, T. R., Associate Professor of Economics, University of Virginia, University, Va. 1916
SNOW, CHAS. H., Dean of School of Applied Science and Professor of Civil Engineering, New York University, New York, N. Y... 1895
SNOW, JOHN E., Associate Professor of Electrical Engineering, Armour Institute of Technology, Chicago, Ill. 1921
SNOW, WALTER B., Publicity Engineer, 60 High St., Boston, Mass. 1899
SORENSEN, R. W., Professor of Electrical Engineering, California Institute of Technology, Pasadena, Calif. 1912
SPALDING, F. P., Professor of Civil Engineering, University of Missouri, Columbia, Mo. 1893
SPAULDING, FRANK E., Sterling Professor of School Administration, Yale University Graduate School, New Haven, Conn. 1922
SPEIRS, CHAS. E., Vice-President, D. Van Nostrand Company, Publishers, 8 Warren Street, New York, N. Y. 1914
SPENCER, F. A., Professor of Electrical Engineering in charge of Dept., Norwich University, Northfield, Vt. 1920
SPENGLER, HARRY T., Professor of Railroad Engineering, LaFayette College, Easton, Pa. 1920
SPERR, F. W., Professor of Civil and Mining Engineering, Michigan College of Mines, Houghton, Mich. 1896
SPERRY, C. S., Professor of Engineering Mathematics, University of Colorado, Boulder, Colo. 1914
SPINNEY, L. B., Professor of Physics, Iowa State College, Ames, Ia. 1899
SPOFFORD, C. M., Hayward Professor of Civil Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1901
SPOONER, H. J., Director and Professor of Mechanical and Civil Engineering, Polytechnic School of Engineering, Regent St., W., London, England 1912
SPRAGUE, EMBERT H., Associate Professor of Civil Engineering, University of Maine, Orono, Me. 1918

SPRAGUE, F. J., President, Sprague Safety Control and Signal Corporation, 421 Canal St., New York, N. Y. 1911

SPRINGER, F. W., Professor of Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1896

SPRINGER, G. P., Assistant District Engineer (Bridges) State Highway Dept., Ann Arbor, Mich. 1917

STANFORD, J. V., Professor of Mechanical Engineering, University of Pennsylvania, Philadelphia, Pa. 1907

STANLEY, WM. E., Resident Engineer South Charleston Sewer Construction, Charleston, W. Va. 1915

STANSFIELD, ALFRED, Chemistry Building, McGill University, Montreal, Canada 1921

STANTON, CHAS. B., Associate Professor of Civil Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1915

STARBUCK, ARWARD, Assistant Professor of English, Iowa State College, Ames, Ia. 1919

STARR, CHARLES J., Assistant Supt., Machine Laboratory, University of Illinois, Urbana, Ill. 1921

STAVLEY, EARL B., Associate Professor of Electrical Engineering, The Pennsylvania State College, State College, Pa. 1920

STEELE, J. N., Instructor in Foundry Work, Dickinson High School, Jersey City, N. J. 1912

STEINBERG, SAMUEL S., Professor of Civil Engineering, University of Maryland, College Park, Md. 1920

STEINMAN, D. B., Consulting Engineer, 25 Church St., New York, N. Y. 1910

STELZNER, W. B., Professor of Electrical Engineering, University of Arkansas, Fayetteville, Ark. 1914

STEPHENSON, S. A., JR., Associate Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1910

STEVENS, A. C., General Electric Co., Pittsfield, Mass. 1912

STEVENS, E. F., Librarian, Pratt Institute Free Library, and Director, School of Library Science, Brooklyn, N. Y. 1908

STEVENS, F. H., Assistant Professor Engineering Mechanics, College of Engineering, University of Michigan, Ann Arbor, Mich. 1915

STEWARD, R. K., Professor of Drawing and Design, Michigan Agricultural College, East Lansing, Mich. 1910

STEWART, G. W., Professor of Physics, State University of Iowa, Iowa City, Ia. 1910

STEWART, L. B., Professor of Surveying and Geodesy, Faculty of Applied Science and Engineering, Toronto University, Toronto, Ontario, Canada 1897

STEWART, O. M., Professor of Physics, University of Missouri, Columbia, Mo. 1909

STILLWELL, L. B., Consulting Engineer, 100 Broadway, New York, N. Y. 1912
STOCKER, GEORGE P., Professor of Civil Engineering, University of Arkansas, Fayetteville, Ark. 1921
STOCKWELL, F. C., Associate Professor of Electrical Engineering, Stevens Institute of Technology, Hoboken, N. J. 1914
STOEK, H. H., Professor of Mining Engineering, University of Illinois, Urbana, Ill. 1907
STONE, CHAS. W., Manager of Lighting Dept., General Electric Co., Schenectady, N. Y. 1911
STONE, E. A., Consulting Engineer, 18 Selby St., Westmount, Quebec 1907
STONE, JULIUS F., Care of Seagrave Co., Columbus, O. 1913
STOUT, O. V. P., President and General Manager, General Farming Corp., Lincoln, Nebr. 1894
STRONG, ALBERT J., Professor of Drawing and Mechanic Arts, University of Florida, Gainesville, Fla. 1913
STUART, M. C., Professor of Mechanical and Marine Engineering, U. S. Naval Post-Graduate School, Annapolis, Md. 1921
STURGES, T. L., JR., Professor of Electrical Engineering, Delaware College, Newark, Del. 1910
STYER, CHARLES A., Assistant Professor of Electrical Engineering, Post Graduate Dept., U. S. Naval Academy, Annapolis, Md... 1918
SULLIVAN, GEO. L., Dean, College of Engineering, University of Santa Clara, Santa Clara, Calif. 1912
SUMMEY, GEORGE JR., Professor of English Composition, North Carolina State College of A. & E., State College, N. C. 1919
SURVEYER, ARTHUR, Consulting Engineer; Member, Board of Directors of the Ecole Polytechnique de Montreal, Room 715 145 St. James St., Montreal, P. Q., Canada 1914
SUTHERLAND, HALE, Assistant Professor of Structural Engineering, Massachusetts Institute of Technology, Cambridge, Mass. .. 1914
SUTTIE, R. H., Assistant Professor of Civil Engineering, Yale University, New Haven, Conn. 1912
SVENSEN, C. L., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1900
SWAIM, VERNE F., Head, Department of Physics, Bradley Polytechnic Institute, Peoria, Ill. 1919
SWAIN, G. F., Professor of Civil Engineering, Harvard University, Cambridge, Mass. 1893
SWEETSER, E. O., Associate Professor of Civil Engineering, Washington University, St. Louis, Mo. 1910
SWEETSER, ROBERT C., Professor of Analytical Chemistry, Worcester Polytechnic Institute, Worcester, Mass. 1922

SWEETSER, W. J., Professor of Mechanical Engineering, University of Maine, Orono, Me. 1910
SWIFT, WALTER, Secretary, Department of Applied Science, University of Sheffield, Sheffield, England 1902
SYPHERD, W. O., Professor of English, University of Delaware, Newark, Del. 1914
TAIT, RALPH S., Assistant Professor of Mechanical Engineering, University of Kansas, Lawrence, Kans. 1921
TALBOT, ARTHUR N., Professor of Municipal and Sanitary Engineering, and in charge of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1893
TALBOT, H. P., Professor of Inorganic Chemistry, Massachusetts Institute of Technology, Cambridge, Mass. 1902
TAPPAN, F. G., Director, School of Electrical Engineering, University of Oklahoma, Norman, Okla. 1921
TAYLOR, HERBERT F., Assistant Professor of Civil Engineering, Worcester Polytechnic Institute, Worcester, Mass. 1922
TAYLOR, KNOX, President, Taylor-Wharton Iron & Steel Co., High Bridge, N. J. 1916
TAYLOR, T. U., Professor of Civil Engineering and Dean of Engineering Department, University of Texas, Austin, Texas 1902
TAYLOR, WARD H., Instructor in Mathematics, University of Arkansas, Fayetteville, Ark. 1921
TAYLOR, W. C., Associate Professor of Civil Engineering, Union University, Schenectady, N. Y. 1913
TAYLOR, WM. E., Professor of Applied Mathematics and Head of Dept., College of Applied Science, Syracuse University, Syracuse, N. Y. 1913
TEAGUE, WILLIAM L., Instructor in Electrical Engineering, University of Arkansas, Fayetteville, Ark. 1922
TEMPLE, W. E. S., Consulting Engineer, Swarthmore, Pa. 1912
TERRELL, DANIEL V., Professor of Civil Engineering, University of Kentucky, Lexington, Ky. 1917
TERRILL, ARTHUR C., Head, Dept. of Mining Engineering, University of Kansas, Lawrence, Kans. 1916
THALER, J. A., Electrical Engineering Dept., Massachusetts Institute of Technology, Cambridge, Mass. 1901
THAYER, H. R., 1150 Wightman St., Pittsburgh, Pa. 1911
THOMAS, C. F., Associate Professor of Mathematics, Case School of Applied Science, Cleveland, O. 1909
THOMAS, CHAS. W., Assistant Professor of Descriptive Geometry and Mechanical Drawing, Case School of Applied Science, Cleveland, O. 1912

THOMAS, EVAN, Professor of Mechanics and Mathematics, University of Vermont, Burlington, Vt. 1908
THOMAS, FRANKLIN, Professor of Civil Engineering, California Institute of Technology, Pasadena, Calif. 1914
THOMAS, GEO. B., Director of Training, Engineering Department, Western Electric Co., Inc., New York, N. Y. 1911
THOMAS, H. A., Professor of Hydraulics, Rose Polytechnic Institute, Terre Haute, Ind. 1913
THOMAS, R. G., Professor Emeritus of Mathematics and Engineering, The Citadel, The Military College of S. C.; Engineer in charge of Records, State Highway Dept., Columbia, S. C. 1894
THOMAS, R. P., Assistant Professor of Applied Mathematics, University of Wooster, Wooster, O. 1914
THOMPSON, FRANK F., Professor of Electrical Engineering, Rutgers College, New Brunswick, N. J. 1909
THOMPSON, G. S., Assistant Professor of Rational and Technical Mechanics, Rensselaer Polytechnic Institute, Troy, N. Y. 1907
THOMPSON, JAMES S., Secretary, McGraw-Hill Book Co., 370 7th Ave., New York, N. Y. 1911
THOMPSON, KARL O., Associate Professor of English, Case School of Applied Science, Cleveland, O. 1919
THOMSON, FRANCIS A., Dean, School of Mines, University of Idaho, Moscow, Ida. 1915
THOMSON, R. D., Industrial Engineer, L. V. Estes, Inc., 411 Broadway, East Lynn, Mass. 1912
THORKELSON, H. J., Business Manager, University of Wisconsin, Madison, Wis. 1909
THORNBURG, C. L., Professor of Mathematics and Astronomy, Lehigh University, Bethlehem, Pa. 1894
THORNTON, W. M., Professor of Applied Mathematics and Dean of the Department of Engineering, University of Virginia, University, Va. 1916
THOROUGHGOOD, R. W., 46 Delaware Ave., Newark, Del. 1913
THURSTONE, L. L., Associate Professor of Psychology, Carnegie Institute of Technology, Pittsburgh, Pa. 1919
TIBBETTS, F. H., Civil Engineer, Alaska Commercial Bldg., San Francisco, Calif. 1908
TILDEN, C. J., Strathcona Professor of Engineering Mechanics, Yale University, New Haven, Conn. 1913
TILGHMAN, HARRISON, Major, Coast Artillery, Care of Col. Oswald Tilghman, Easton, Md. 1919
TIMBIE, W. H., Associate Professor of Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1908

TITSWORTH, A. A., Professor of Civil Engineering, Rutgers College, New Brunswick, N. J. 1903
TIVEY, J. P., Engineer, Australian General Electric Co., Mazda House, Wentworth Ave., Sydney, Australia 1912
TODD, M. E., Instructor in Electrical Engineering, University of Minnesota, Minneapolis, Minn. 1913
TOMPKINS, FREDERICK N., Instructor in Electrical Engineering, Brown University, Providence, R. I. 1922
TOMPKINS, V. D., Supt. of Electrical Shops, Robert College, Constantinople, Turkey 1915
TOPPING, A. N., Professor of Electrical Engineering, Purdue University, LaFayette, Ind. 1910
TOWLE, W. M. 323 Pearl St., Burlington, Vt. 1895
TRACY, J. C., Professor of Civil Engineering, Yale University, New Haven, Conn. 1907
TRAILL, J. J., With Hydro Electric Power Comm., of Ontario, Toronto, Ont., Canada 1912
TRAUTMAN, WILLIAM DANIEL, Assistant Professor of Modern Languages, Case School of Applied Science, Cleveland, O. 1920
TRINKS, W., Professor and Head of Department of Mechanical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa... 1917
TRUEBLOOD, RALPH B., Professor of Practical Mechanics, Purdue University, LaFayette, Ind. 1922
TUCKER, CARLTON E., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922
TUCKER, E. N., Instructor in Mathematics, Virginia Episcopal School, Lynchburg, Va. 1915
TUDBURY, CHESTER W., Secretary of Faculty and Registrar, Wentworth Institute, Boston, Mass. 1921
TURLEY, O. J., Consulting Geological Engineer, 945 Munsey Bldg., Washington, D. C. 1912
TURNBULL, W. D., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1917
TURNBULL, WILLIAM T., Instructor in Mechanical Engineering, New York University, New York City 1920
TURNEAURE, F. E., Dean of the College of Engineering, University of Wisconsin, Madison, Wis. 1894
TURNER, C. A. P., Engineer, 2675 Lake of Isles Blvd., Minneapolis, Minn. 1913
TURNER, D. L., Chief Engineer, Transit Construction Commissioner, 9 East 39th St., New York, N. Y. 1898
TURNER, W. P., Professor of Practical Mechanics, Purdue University, LaFayette, Ind. 1900

TUTHILL, JOHN K., Assistant Professor of Railway Electrical Engineering, University of Illinois, Urbana, Ill. 1922

TYLER, H. G., Assistant Professor of Mechanical Engineering, New York University, University Heights, New York, N. Y. 1915

TYLER, H. W., Walker Professor and Head, Dept. of Mathematics, Massachusetts Institute of Technology, Cambridge, Mass. 1894

UNDERHILL, JAMES, Associate Professor of Mining, Colorado School of Mines, Golden, Colo. 1921

UPSON, W. L., Professor of Electrical Engineering, Washington University, St. Louis, Mo. 1910

VALLAS, MINER H., Instructor in Electrical Engineering, Tulane University, New Orleans, La. 1922

VAN BUSKIRK, H. C., Professor of Mathematics, California Institute of Technology, Pasadena, Calif. 1911

VANDERBEEK, H. A., Principal, Wusih Technical School, Wusih, Kiangsu, China 1915

VAN HAGAN, L. F., Professor of Railway Engineering, University of Wisconsin, Madison, Wis. 1912

VAN NESS, L. G., Consulting Electrical Engineer, 1431 Union Trust Bldg., Cincinnati, O. 1907

VAN ORNUM, J. L., Professor of Civil Engineering, Washington University, St. Louis, Mo. 1895

VARNEY, E. A., Instructor in Architectural Construction, Wentworth Institute, Boston, Mass. 1921

VAUGHN, F. A., Vice-President, School of Engineering of Milwaukee, Milwaukee, Wis. 1918

VAUGHAN, L. L., Professor of Mechanical Engineering, North Carolina State College of Agriculture and Engineering, State College Station, Raleigh, N. C. 1912

VEAL, C. B., Consulting Engineer, 250 West 54th St., New York City. 1910

VEAZEY, WILLIAM R., Associate Professor of Chemistry, Case School of Applied Science, Cleveland, O. 1922

VEDDER, H. K., Professor of Civil Engineering, Michigan Agricultural College, East Lansing, Mich. 1894

VEDDER, J. N., Professor of Thermodynamics, Union College, Schenectady, N. Y. 1910

VOLKMER, ALBERT W., Instructor in Drawing and Descriptive Geometry, State University of Iowa, Iowa City. Ia. 1921

VOSE, F. H., Professor of Mechanical Engineering, in charge of the department, Case School of Applied Science, Cleveland, O.. 1907

VOSKAMP, JOHN A., Instructor in Civil Engineering, New York University, University Heights, N. Y. 1918

VOSS, W. C., Head, Dept. of Architectural Construction, Wentworth Institute, Boston, Mass. 1921

VOTEY, J. W., Professor of Civil Engineering and Dean of the College of Engineering, University of Vermont, Burlington, Vt. 1902

WADDELL, J. A. L., Consulting Engineer, 35 Nassau St., Room 1503, New York, N. Y. 1893

WADSWORTH, F. L. O., Consulting and Advisory Engineer, Pittsburgh, Pa. 1911

WADSWORTH, J. E., Division Engineer, American Bridge Co., 22 Morsemere Place, Yonkers, N. Y. 1895

WAGNER, F. C., Professor of Mechanical Engineering, Rose Polytechnic Institute, Terre Haute, Ind. 1911

WAGNER, SAMUEL T., Chief Engineer, The Philadelphia and Reading Railway Co., Reading Terminal, Philadelphia, Pa. 1911

WAIT, J. C., Attorney and Counsellor-at-law, Engineering Jurisprudence, Woolworth Bldg., 233 Broadway, New York, N. Y. 1907

WAITE, E. B., Practicing Engineer, Westboro, Mass. 1914

WALDO, EDWARD H., Assistant Professor of Electrical Design, University of Illinois, Urbana, Ill. 1922

WALDO, W. G., Consulting Engineer, First National Bank Bldg., Chattanooga, Tenn. 1917

WALES, R. L., Professor of Mechanical Engineering and Dean of Engineering Depts., Rhode Island State College, Kingston, R. I. 1914

WALKER, AMASA, Manager of Educational Dept., Longmans, Green & Co., 55 Fifth Ave., New York, N. Y. 1914

WALKER, CHAS. L., Assistant Professor of Sanitary Engineering, College of Engineering, Cornell University, Ithaca, N. Y. .. 1910

WALKER, E. D., Professor of Hydraulic and Sanitary Engineering, Pennsylvania State College, State College, Pa. 1895

WALKER, E. S., Assistant Professor of Mechanical Engineering, University of Florida, Gainesville, Fla. 1910

WALKER, HARRY B., Professor of Agricultural Engineering, Kansas State Agricultural College, Manhattan, Kans. 1921

WALKER, P. F., Dean of the School of Engineering, University of Kansas, Lawrence, Kans. 1907

WALLACE, S. S., Professor of English, Georgia School of Technology, Atlanta, Ga. 1919

WALLER, O. L., Vice-President and Professor of Civil Engineering, State College of Washington, Pullman, Wash. 1911

WALTERS, RAYMOND, Dean of Swarthmore College, Swarthmore, Pa. 1921

WARD, CLAYTON N., Assistant Professor of Hydraulic Engineering, University of Wisconsin, Madison, Wis. 1920

WARD, SAMUEL, Instructor in Civil Engineering, Case School of Applied Science, Cleveland, O. 1917

WATERMAN, I. F., Instructor in Civil Engineering, Oregon Agricultural College, Corvallis, Ore. 1916

WATERS, E. O., Instructor in Machine Design, Sheffield Scientific School, Yale University, New Haven, Conn. 1914

WATSON, J. W., Assistant Professor of Electrical Engineering, University of Wisconsin, Madison, Wis. 1910

WATTS, C. W., Professor of Mathematics, The Virginia Military Institute, Lexington, Va. 1911

WEAVER, LEON H. A., 72A, Highwood Terrace, Weehawken, N. J. 1914

WEAVER, RUDOLPH, Head, Department of Architecture; Architect to the College, The State College of Washington, Pullman, Wash. 1919

WEBB, H. E., Head of the Department of Mathematics, Central Commercial and Manual Training High School, Newark, N. J.. 1912

WEBBER, W. PAUL, Professor of Mathematics, University of Pittsburgh, Pittsburgh, Pa. 1921

WEBER, JOHN, Associate Professor of Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1914

WEIDA, FRANK M., Instructor in Mathematics, State University of Iowa, Iowa City, Ia. 1921

WEILAND, W. F., Instructor in Mechanical Engineering, University of Pittsburgh, Pittsburgh, Pa. 1921

WEINBACH, M. P., Associate Professor of Electrical Engineering, University of Missouri, Columbia, Mo. 1915

WEISS, CAMILLO, Special Engineer, Bethehem Steel Co.. 1213 Russell Ave., Bethlehem, Pa. 1917

WELCH, FREDERIC W., Assistant Professor of Civil Engineering, State College of Washington, Pullman, Wash. 1921

WELD, FRED F., Associate in Civil Engineering, University of Washington, Seattle, Wash. 1922

WENDELL, G. V., Professor of Physics, Columbia University, New York, N. Y. 1900

WENDT, W. B., South Dakota State School of Mines, Rapid City, S. D. 1908

WENK, MORRIS, Assistant Professor of Mechanical Engineering, Oregon State Agricultural College, Corvallis, Ore. 1921

WESCHLER, GEORGE A., Associate Professor of Mechanical Engineering, The Catholic University of America, Washington, D. C. 1919

WESTERGAARD, HARALD M., Assistant Professor of Theoretical and Applied Mechanics, University of Illinois, Urbana, Ill. 1920

WESTON, EDW., President, The Weston Electrical Instrument Co., Waverly Park, Newark, N. J. 1911

WHARTON, JAMES R., Chairman, Dept. of Mechanical Engineering, University of Missouri, Columbia, Mo. 1919

WHEELER, L. P., Assistant Professor of Physics, Yale University, New Haven, Conn. 1908

WHEELER, NATHANIEL E., Professor of Physics, Colby College, Waterville, Me. 1921

WHIPPLE, G. C., Gordon McKay Professor of Sanitary Engineering, Harvard University, Cambridge, Mass. 1896

WHITE, A. E., Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kans. 1910

WHITE, A. H., Professor of Chemical Engineering, University of Michigan, Ann Arbor, Mich. 1920

WHITE, CHAS. H. M., Instructor in Electrical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 1922

WHITE, J. M., Professor of Architectural Engineering and Supervising Architect, University of Illinois, Urbana, Ill. 1900

WHITEHEAD, J. B., Dean, Faculty of Engineering and Professor of Electrical Engineering, The Johns Hopkins University, Baltimore, Md. 1913

WHITEHEAD, L. W., Assistant Professor of Civil Engineering, The Pennsylvania State College, State College, Pa. 1918

WHITMORE, R. D., I Pembroke St., New Rochelle, N. Y. 1917

WICKENDEN, WM. E., Assistant Vice-President American T. and T. Co., 195 Broadway, New York, N. Y. 1912

WIGLEY, W. R., 89 Bruce Avenue, Yonkers, N. Y. 1915

WILCOX, HUGH B., Assistant Professor of Mathematics and Mechanics, University of Minnesota, Minneapolis, Minn. 1922

WILEY, RALPH B., Professor of Sanitary Engineering, Purdue University, LaFayette, Ind. 1920

WILEY, W. O., Publisher of Scientific Books, Treasurer, John Wiley & Sons, Inc., 432 Fourth Ave., New York, N. Y. 1904

WILLARD, ARTHUR C., Professor, Heating and Ventilating, Head, Dept. Mechanical Engineering, University of Illinois, Urbana, Ill. 1922

WILLIAMS, C. C., Professor of Civil Engineering, University of Kansas, Lawrence, Kans. 1909

WILLIAMS, J. P. J., Civil Engineering Dept., Cooper Union, Cooper Square, New York, N. Y. 1919

WILLIAMS, NEIL H., Professor of Physics, University of Michigan, Ann Arbor, Mich. 1921

WILLIAMS, O. E., Assistant Professor of Engineering Drawing, The Ohio State University, Columbus, O. 1910

WILLIAMS, S. N., Professor Emeritus of Civil and Sanitary Engineering, Cornell College, 734 N. Fairoaks Ave., Oak Park, Ill. 1893

WILLIAMS, W. S., Professor of Topographical Engineering, University of Missouri, Columbia, Mo. 1913

WILLIAMSON, CHARLES O., Professor of Applied Mathematics, College of Wooster, Wooster, O. 1919

WILLIAMSON, C. S., Professor of Industrial Chemistry, Tulane University, New Orleans, La. 1922

WILLIS, A. J., Associate Professor of Structural Engineering, Purdue University, LaFayette, Ind. 1912

WILLISTON, ARTHUR L., Principal, Wentworth Institute, Boston, Mass. 1897

WILLSON, F. G., Head of Dept. of Applied Electricity, Wentworth Institute, Boston, Mass. 1912

WILLSON, F. N., Professor of Graphics, Princeton University, Princeton, N. J. 1913

WILMORE, J. J., Dean, School of Engineering, and Professor of Mechanical Engineering, Alabama Polytechnic Institute, Auburn, Ala. 1894

WILMOT, SYDNEY, Assistant Professor of Civil Engineering, Brown University, Providence, R. I. 1919

WILSON, A. M., Professor of Electrical Engineering, University of Cincinnati, Cincinnati, O. 1907

WILSON, GEO. S., Associate Professor of Mechanical Engineering, University of Washington, Seattle, Wash. 1912

WILSON, JOHN F., Professor of Electrical and Mechanical Engineering, University of Southern California, Los Angeles, Calif. .. 1913

WILSON, W. L., Professor of Railroad Engineering, Lehigh University, Bethlehem, Pa. 1909

WILSON, WILBUR M., Research Professor of Structural Engineering, University of Illinois, Urbana, Ill. 1914

WING, FRANCIS H., Supervisor of Industrial Education, Buffalo Public Schools, Buffalo, N. Y. 1919

WING, S. R., Professor of Mechanical and Electrical Engineering, Pennsylvania College, Gettysburg, Pa. 1914

WINSLOW, A. E., Dean of Civil Engineering Dept., Norwich University, Northfield, Vt. 1914

WINSLOW, A. M., Associate Professor of Mechanical Engineering, University of Washington, Seattle, Wash. 1918

WINSOR, ARTHUR S., Assistant Professor of Mathematics, University of North Carolina, Chapel Hill, N. C. 1921

WIREN, ALEXIS R., General Secretary, Russian Students Christian Association, 347 Madison Ave., New York City. 1921

WISLER, C. O., Associate Professor of Hydraulic Engineering, University of Michigan, Ann Arbor, Mich. 1920

WITHAM, R. L., Assistant Engineer, Sperry Gyroscope Co., Manhattan Bridge Plaza, Brooklyn, N. Y. 1914

WITHEY, M. O., Professor of Mechanics, University of Wisconsin, Madison, Wis. 1910

WITHROW, JAMES R., Professor of Chemistry, Ohio State University, Columbus, O. 1907

WITTIG, GUSTAV F., Assistant Professor of Electrical Engineering, Yale University, New Haven, Conn. 1919

WOHLENBERG, W. J., Assistant Professor of Mechanical Engineering, Sheffield Scientific School, Yale University, New Haven, Conn. 1917

WOLF, HARRY J., 42 Broadway, New York, N. Y. 1914

WOLFARD, N. ELLSWORTH, Assistant Professor of Civil Engineering, University of Oklahoma, Norman, Okla. 1921

WOLFE, B. LEE, Associate Professor of Mining Engineering, University of Kansas, Lawrence, Kans. 1919

WOLFE, W. S., 2125 Montclair St., Detroit, Mich. 1916

WOOD, A. J., Professor of Railway Mechanical Engineering, Pennsylvania State College, State College, Pa. 1898

WOOD, E. H., Professor of Mechanics of Engineering, Cornell University, Ithaca, N. Y. 1910

WOODMAN, J. E., Professor of Geology and Director of Geological Museum, New York University, University Heights, New York, N. Y. 1912

WOODROW, JAY W., Professor of Physics, Iowa State College, Ames, Ia. 1916

WOODS, HARLAND C., Professor of Civil Engineering, Robert College, Constantinople, Turkey; Care of Guaranty Trust Co. of New York, Trust Dept., 140 Broadway, New York, N. Y..... 1910

WOODWARD, R. S., Ex-President, Carnegie Institution of Washington, Washington, D. C. 1893

WOODWARD, S. M., Professor of Mechanics and Hydraulics, State University of Iowa, Iowa City, Ia. 1910

WOOSTER, HARVEY A., Professor of Economics, Tufts College, Tufts College, Mass. 1922

WOOSTER, L. F., Professor of Applied Electricity, Oregon Agricultural College, Corvallis, Ore. 1912

WORK, WILLIAM R., Professor of Electrical Engineering, Carnegie Institute of Technology, Pittsburgh, Pa. 1921

WRIGHT, A. S., Professor of Modern Languages, Case School of Applied Science, Cleveland, O. 1907

WRIGHT, C. A., Professor of Electrical Engineering, The Ohio State University, Columbus, Ohio 1916

WRIGHT, EDWIN, H. Assistant Professor of Civil Engineering, Tufts College, Tufts College, Mass. 1921

WUNDERLEE, JAMES L., Instructor in Practical Mechanics, Purdue University, LaFayette, Ind. 1922

WYMAN, F. T., President, Packard Electric Co., Ltd., St. Catherines, Ont. 1912

YOE, JOHN HOWE, Adjunct Professor of Chemistry, University of Virginia, University, Va. 1920

YOUNG, C. M., Professor Head of Mining Engineering, University of Kansas, Lawrence, Kans. 1907

YOUNG, C. R., Associate Professor of Structural Engineering, University of Toronto, Toronto, Ont. 1914

YOUNG, E. G., Mechanical Engineering, Chiao Tung Unversity, (Nanyang College) Shanghai, China. 1922

YOUNG, G. A., Professor and Head of the Department of Mechanical Engineering, Director, Mechanical Engineering Laboratories, Purdue University, LaFayette, Ind. 1907

YOUNG, L. E., Manager, Steam Heating Utility, Union Electric Co., Room 805, St. Louis, Mo. 1910

ZIWET, ALEXANDER, Professor of Mathematics, University of Michigan, Ann Arbor, Mich. 1897

ZOWSKI-ZWIERZCHOWSKI, S. J., Professor of Mechanical Engineering, University of Michigan, Ann Arbor, Mich. 1910

LIST OF MEMBERS.

ADDENDA.

ANDERSON, JAMES A., Associate Professor of Civil Engineering, Virginia Military Institute, Lexington, Va. 1922

EDISON, OSKAR E., Assistant Professor, University of Nebraska, Lincoln, Nebr. 1922

FAIRFIELD, JOHN G., Assistant Professor of Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

FLORES, BALBINO R., Instructor in Romance Languages, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

GRIDER, RICHARD L., Associate Professor of Mining, University of Kansas, Lawrence, Kans. 1922

MATTHEWS, THOMAS, Instructor in Electrical Engineering, University of North Dakota, Grand Forks, N. D. 1922

PIERPONT, ARTHUR DE, Head, Dept. of Romance Languages, Rensselaer Polytechnic Institute, Troy, N. Y. 1922

Individual Members	1503
Institutional Members	86
Total Membership	1589

LIST OF MEMBERS.

SECTIONS OF THE SOCIETY.
(In order formed.)

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Kansas-Nebraska Section.
Georgia Tech. Section.
New England Section.
Minnesota Section.

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University of Arkansas.
Case School of Applied Science.
University of Cincinnati.
University of Colorado.
University of Florida.
Iowa State University.
Marquette University.
University of Michigan.
New Hampshire College.
New York University.
The Ohio State University.
Pennsylvania College.
Purdue University.
University of Oklahoma.
Rensselaer Polytechnic Institute.
St. John's University (China).
Stevens Institute of Technology.
Swarthmore College.
Syracuse University.
A. & M. College of Texas.
Tufts College.
Vermont University.
Yale University.

LIST OF MEMBERS.

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GEOGRAPHICAL DISTRIBUTION OF MEMBERSHIP.

ALABAMA

Auburn.—Callan, John A. C., Ala. Poly. Inst.
Fullan, M. T., Ala. Poly. Inst.
Hill, W. W., Ala. Poly. Inst.
Hixon, C. R., Ala. Poly. Inst.
Morrison, Roger L., 4717 First Ave.
Wilmore, J. J., Ala. Poly. Inst.
University.—Davis, G. Jacob, Jr., Univ. of Ala.
Denny, G. H., Univ. of Ala.
Lloyd, S. J., Univ. of Ala.

ARIZONA

Tucson.—Butler, G. M., Univ. of Ariz.
Cloke, Paul, Univ. of Ariz.
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ARKANSAS

Fayetteville.—Baender, T. G., Univ. of Ark.
Gladson, W. N., Univ. of Ark.
Steizner, W. B., Univ. of Ark.
Stocker, G. P., Univ. of Ark.
Taylor, Ward H., Univ. of Ark.
Teague, Wm. L., Univ. of Ark.
Pine Bluff.—Couch, Harvey C., Ark. Light & Power Co.

CALIFORNIA

Berkeley.—Bhole, V. R., P. O. 98.
Cory, C. L., Univ. of Calif.
Derleth, Chas. Jr., Univ. of Calif.
Domonoske, A. B., Univ. of Calif.
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Morrill, J. B., Reed Reduction Co.
Moser, Charles, 651 Homer Ave.
Pasadena.—Clapp, W. H., Calif. Inst. of Tech.
Daugherty, R. L., Calif. Inst. of Tech.
Gilmore, L. H., Calif. Inst. of Tech.
Macarthur, J. R., Calif. Inst. of Tech.
Martel, R. R., Calif. Inst. of Tech.
Sorensen, R. W., Calif. Inst. of Tech.
Thomas, Franklin, Calif. Inst. of Tech.
Van Buskirk, H. C., Calif. Inst. of Tech.
Sacramento.—Fletcher, A. B. Forum Bldg.
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Tibbetts, Fred H., Alaska Commercial Bldg.
San Jose.—Corbin, C. E., College of the Pacific.
Santa Clara.—Sullivan, Geo. L., Univ. of Santa Clara.
Stanford University.—Durand, W. F., Stanford Univ.
Fish, J. C. L., Stanford Univ.
Henline, H. H., Stanford Univ.
Hoover, T. J., Stanford Univ.
Marx, C. D., Stanford Univ.
Ryan, H. J., Stanford Univ.
Whittier.—Parsons, F. W., Whittier College.

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Alberta.—Ellis, Fred., 10425 92nd St., Edmonton, South.
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Montreal.—Adams, F. D., McGill Univ.
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Johnson, Phelps, Dominion Bridge Co.
Kelley, H. G., Grand Trunk Ry. System.
Lefebvre, Olivier O., 247 Mount Royal West.
McKergow, C. M., McGill Univ.
MacKay, H. M., McGill Univ.
Murray, D. A., McGill Univ.
Porter, J. B., McGill Univ.
Stansfield, Alfred, McGill Univ.
Surveyer, Arthur, Room 715, 145 St. James St.
New Glasgow.—Bray, H. C. C., Nova Scotia Steel & Coal Co.
Ontario.—Howe, C. D., Whalen Bldg., Port Arthur.

St. Catherines.—Wyman, F. T., Packard Electric Co.
Saskatoon.—Mackenzie, C. J., Univ. of Saskatchewan.
Toronto.—Arkley, L. M., Univ. of Toronto.
Dyer, F. C., Univ. of Toronto.
Gillespie, Peter, Univ. of Toronto.
Haultain, H. E. T., Univ. of Toronto.
McGowan, John, Univ. of Toronto.
Parkin, John H., 10 Columbine Ave.
Rosebrugh, T. R., University of Toronto.
Stewart, L. B., Univ. of Toronto.
Traill, J. J., 15 Fulton Ave.
Young, C. R., Univ. of Toronto.
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Evans, H. S., Univ. of Colorado.
Hunter, J. A., Univ. of Colo.
Huntington, W. C., Univ. of Colo.
Lester, O. C., Univ. of Colo.
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Lory, C. A., Colo. State Agri. College.
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LeConte, J. N.
Lefavour, H. P.
Lanham, E. T.
Le Page, C. B.
Leutwiler, O. A.
Light, J. J.
Lindley, R. W.
Little, Edmund F.
Lockwood, E. H.
Lott, S. H.
Lucke, C. E.
Ludy, L. V.
Luebs, A. A.
Lund, Jacob
McKergow, C. M.
Macalpine, J. H.
MacCullough, G. H.
Mack, Albert J.
MacNaughton, Edgar.
Mall, Ivor O.
Magruder, Wm. T.
Main, C. T.
Marks, L. S.
Marquis, F. W.
Martenis, J. Van S.
Martin, H. A.
Martin, W. H.
Meeker, W. H.
Meritz, H. K.
Miller, James S.
Ming, Frederick
Mitchell, Grover I.
Moffett, John H.
Moody, L. F.
Morse, J. L.
Moss, S. A.
Muhfeld, J. E.
Munro, G. W.
Needy, John A.
Newton, Guy D.
Norton, A. E.
Nottingham, A. R.
Ohle, E. L.

OCCUPATIONAL DISTRIBUTION OF MEMBERSHIP.

Olson, O. A.
Palsgrove, Grant K.
Park, C. F.
Parkin, J. H.
Philbrick, H. S.
Porter, Chas. T.
Porter, R. H.
Pound, J. H.
Prentice, D. B.
Pryor, F. L.
Quigley, E. R.
Raber, B. F.
Richardson, G. R.
Robertson, B. J.
Robinson, Edw.
Roesch, Daniel.
Rowley, F. B.
Rubenkoenig, Harry
Runk, John C.
Rush, Harry S.
Sadler, H. C.
Sanborn, F. E.
Sanders, W. H.
Sauers, John A.
Sayre, M. F.
Schmidt, E. C.
Scott, L. C.
Setchell, H. E.
Seward, H. L.
Shattuck, E. L.
Shipley, S. C.
Shoop, C. F.
Simmering, S. L.
Sluss, A. H.
Smith, Harry E.
Smith, Ralph A.
Stanford, J. V.
Starr, Chas. J.
Stuart, M. C.
Sullivan, Geo. L.
Sweetser, W. J.
Tait, R. S.
Trinks, W.
Turnbull, W. F.
Tyler, H. G.
Vaughan, L. L.
Veal, C. B.
Vedder, J. N.
Vose, F. H.
Wagner, F. C.
Waite, E. B.
Wales, R. L.
Walker, E. S.
Weaver, L. H. A.
Weber, John.
Welland, W. F.
Weschler, G. A.
Wharton, James R.
Wigley, W. R.
Willard, A. C.
Wilmore, J. J.
Wilson, Geo. S.
Wing, S. R.
Winslow, A. M.
Wohlenberg, W. H.
Wood, A. J.
Young, E. G.
Young, G. A.
Zowski-Zwierzchowski, S.J.

MECHANICS AND MATERIALS

Airey, John A.
Basquin, O. H.
Boomsliter, G. P.
Boyd, J. E.
Britton, Laurence.
Brooke, W. E.
Brooks, J. Ansel.
Brown, F. L.
Chambers, S. D.
Chatburn, G. R.
Coddington, E. P.
Cornell, W. R.
Crook, L. H.
Danforth, R. H.
Defoe, L. M.
Dietrich, J. J.
Draffin, J. O.
Duff, C. M.
Dukes, R. G.
Enger, M. L.
Ensign, N. E.
Fleming, V. R.
Fuller, C. E.
George, S. G.
Gilkey, H. J.
Gregg, R. B.
Hayward, H. W.
Hendrick, T. K.
Hitchcock, F. A.
Holman, W. F.
Holmes, F. E.
Houghton, C. E.
Hustedt, H. F.
Jasper, T. McD.
Johnston, W. A.
Laurson, P. G.
Lawrance, C. H.
McGowan, John.
Maurer, E. R.
Moore, H. F.
Moser, Chas.
Newkirk, B. L.
Paul, C. E.
Patterson, G. W.
Plummer, H. C.
Priester, G. C.
Poorman, A. P.
Riggs, N. C.
Roark, Raymond J.
Sanders, W. B.
Seely, F. B.
Stevens, F. H.
Talbot, Arthur N.
Thompson, G. S.
Trueblood, R. B.
Westergaard, H. M.
Withey, M. O.
Wood, E. H.
Woodward, S. M.
Wunderlee, J. L.

MINING ENGINEERING

Black, R. M.
Boyle, A. C., Jr.
Cobb, Collier.
Comstock, E. H.
Denton, F. W.
Drucker, A. E.
Dyer, F. C.
Haultain, H. E. T.
Hoover, Theodore J.
Hunt, R. W.
Jenkins, A.
Kidd, J. W.
MacNaughton, Jas.
Munroe, H. S.
Nold, H. E.
Norwood, C. J.
Plank, W. B.
Porter, J. B.
Probert, F. H.
Roberts, Milnor.
Smyth, H. L.
Sperr, F. W.
Stoek, H. H.
Terrill, A. C.
Thomson, Francis A.
Underhill, James.
Wolf, Harry J.
Wolfe, B. Lee.
Young, C. M.

PHYSICS

Angel, Wm. P.
Ayres, F. H.
Bacon, G. P.
Ball, Albert.
Blake, Fred C.
Boreman, R. W.
Brown, S. L.
Charles, R. L.
Clo, J. H.
Cole, Alfred D.
Cooper, F. L.
Coulson, J. C.
Dodge, H. L.
Duff, A. W.
Dysart, P. M.
Elliott, D. S.
Fisher, James.
Fitch, A. L.
Franklin, W. S.
Furia, John J.
Gilmore, L. H.
Grondahl, L. O.
Ham, Wm. R.
Hamilton, J. O.
Hedrick, Wm. A.
Hitchcock, Geo. G.
Householder, F. F.
Hower, H. S.
Howes, H. L.
Hoxton, L. G.
Kazda, C. B.
Knight, N. H.
Knipp, C. T.

OCCUPATIONAL DISTRIBUTION OF MEMBERSHIP.

Kovarik, Alois F.
Lester, O. C.
MacNutt, Barry.
Mallory, Francis.
Marvin, H. H.
Mendenhall, T. C.
Miller, Dayton C.
Norton, C. L.
Nyswander, R. E.
Perry, Wm. S.
Person, Fred G.
Piper, F. F.
Porter, R. A.
Prine, C. W.
Randall, H. M.,
Rich, D. L.
Silvey, O. W.
Snader, David L.
Spinney, L. B.
Stewart, G. W.
Stewart, O. M.
Swaim, Verne F.
Wendell, G. V.
Wheeler, L. P.
Wheeler, N. E.
Williams, Neil H.
Woodrow, Jay W.

SANITARY ENGINEERING

Babbitt, Harold E.
Case, George W.
Eno, F. H.
Hering, Rudolph.
Knowles, Morris.
Long, J. J.
Mead, D. W.
Saville, Thorndike.
Whipple, G. C.
Wiley, Ralph B.

SHOP AND MECHANIC ARTS

Ellis, Frederick.
Hall, Burrill R.
Johnson, E. A.
Jones, F. E.
Knight, W. A.
Krewson, R. H.
Little, G. T.
Lynch, D. E.
Morris, J. J.
Radebaugh, G. H.
Richards, Wm. H.
Rilliet, Chas. E.
Steele, J. N.
Turner, W. P.

MISCELLANEOUS

Arms, Ray W.
Beale, Frank S.
Bhole, V. R.
Coster, E. L.
Davee, E. W.
Eggers, H. C. T.
Everett, C. W.
Goldsmith, Adolph.
Hoexter, S. J.
Jones, Leonard R.
Jones, Samuel M.
Lindell, W. F.
Lourin, M. R.
Moritz, H. K.
Peacock, F. E.
Phillips, Hubert
Richards, T. E.
Snavely, T. R.
Thurstone, L. L.
Turner, C. A. P.

SUMMARY BY OCCUPATIONS.

Administration Officers:	*A*—College and University	149
	B—Industrial	83
Architecture		17
Agricultural Engineering		8
Chemistry		34
Civil Engineering		334
Electrical Engineering		230
Geology and Metallurgy		14
Industrial Engineering		10
Language		31
Machine Design and Drawing		64
Mathematics		92
Mechanical Engineering		241
Mechanics and Materials		60
Mining Engineering		30
Physics		60
Sanitary Engineering		10
Shop and Mechanic Arts		14
Miscellaneous		21
		1503
Institutional Members		86
Total Membership		1589

SUMMARY BY OCCUPATIONS.

GROWTH OF MEMBERSHIP.*

Aug.	20, 1894	156	
Sept.	2, 1895	184	
Aug.	20, 1896	200	(about)
Aug.	16, 1897	203	
Aug.	18, 1898	226	
Aug.	17, 1899	238	
July	2, 1900	249	
June	29, 1901	261	
June	27, 1902	253	
July	1, 1903	271	
Sept.	1, 1904	325	
June	28, 1905	379	
July	2, 1906	400	
July	1, 1907	415	
June	27, 1908	675	
June	24, 1909	759	
June,	23, 1910	848	
June	27, 1911	1,071	
June	1912	1,102	
June,	1913	1,158	
March,	1914	1,339	
July	1, 1915	1,452	
March,	1916	1,504	
March,	1917	1,505	
March,	1918	1,506	
April,	1920	1,511	
April,	1922	1,589	

* These figures are taken from the reports of the Secretary, presented at the annual meetings, except the figures for 1914 which were taken from the corresponding year book.

CONSTITUTION

OF THE

Society for the Promotion of Engineering Education

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1. NAME—This organization shall be called the SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.

2. MEMBERS—Membership in the Society shall be of two general classes, Institutional and Individual.

Institutional members shall be educational institutions giving instruction in engineering and scientific subjects.

Individual membership shall be of two classes, Active and Honorary. It shall comprise those persons who occupy or have occupied responsible positions in the work of engineering instruction, together with engineering practitioners and other persons interested in engineering education.

Honorary Members of the Society shall be such persons as may be recommended by unanimous vote of the Council after a letter ballot. In taking this ballot, the Secretary is directed to close the polls one month after the names of the candidates are sent out. Councilors not heard from will be counted in favor of the candidate. Honorary Members shall not have the right to vote, shall not be eligible to office, and shall not be required to pay any fees or dues.

Any individual member not in arrears for dues may become a Life Member by paying Fifty Dollars into the treasury of the Society at one time.

The name of each candidate for individual membership shall be proposed in writing to the Council by two members by whom he is personally known. In the case of a candidate for Institutional membership the name shall be proposed by any member familiar with the work of the institution on receipt of an application signed by a responsible officer thereof. Such name, if approved by the Council, shall be voted on by the Society at the annual meeting, a vote of three-fourths of those present being required to elect; or, during the period between annual meetings, an affirmative letter ballot of three-fourths of those members of the Council whose vote reaches the Secretary within one month from the time of sending out the name of the candidate shall elect. Such letter ballot elections shall be credited to the previous annual meeting and dues shall date from that time, except that elections to membership occurring after

February 1 shall be credited to the next annual meeting and the dues for the remainder of the year shall be one-half the annual dues.

3. OFFICERS—There shall be a President, two Vice-Presidents, a Secretary and a Treasurer, each to hold office for one year, or until their successors have been elected and have qualified. The Officers shall be elected by ballot of the Society at the annual meeting.

4. COUNCIL—The Council of the Society shall consist of twenty-one elective members, one-third of whom shall retire annually. The Officers and the Past Presidents of the Society shall be members of the Council ex-officio.

Any member of the Society shall be eligible to election to the Council, provided that not more than one elective member shall be from any one college.

Members of the Council shall be elected by ballot by the Society at its annual meeting.

The Council shall constitute a general executive body of the Society, pass on proposals for membership, elect candidates ad interim, attend to all business of the Society, receive and report on propositions for amendments to the constitution, and shall have power to fill temporary vacancies in the offices.

The President of the Society shall be Chairman of the Council, and the Secretary of the Society shall be Secretary of the Council and shall keep the minutes of its meetings and an accurate record of all its actions.

When votes taken by letter ballot of the Council shall be required, all votes which reach the Secretary within one month from the time of sending out the ballots shall be counted, but votes reaching the Secretary later than the time here specified shall not be counted.

5. NOMINATING COMMITTEE—The Nominating Committee shall consist of the Past Presidents and the seven elective members of the Council retiring the following year, provided, however, that if, of this committee, the number in attendance at any meeting be less than five, the President shall make appointments so as to form a committee of five.

6. FEES AND DUES—The admission fee for an individual, active member, which shall also include the first year's dues, shall be Four Dollars ($4.00), and the annual dues, which shall include the subscription price of the BULLETIN, provided for in Art. 8, shall be Four Dollars ($4.00), payable at the time of the annual meeting.

The admission fee for institutional members, which shall also include the first year's dues, shall be Ten Dollars ($10.00), and the annual dues, which shall include the subscription price of three copies of the BULLETIN, and of the PROCEEDINGS, provided for in Art. 8, shall be Ten Dollars ($10.00), payable at the time of the annual meeting.

The fiscal year shall end with the close (or adjournment) of the annual

meeting. Those in arrears more than one year shall not be entitled to vote, nor to receive copies of the PROCEEDINGS, and such members shall be notified thereof by the Secretary one month previous to the annual meeting. Any member who has been in arrears more than two years and duly notified by the Secretary, shall be dropped from the roll, until such arrearages are paid.

7. MEETINGS—There shall be an annual meeting at such time and place as the Society at the preceding annual meeting, or the Council may determine.

8. PUBLICATIONS—The publications of the Society shall include an annual volume of PROCEEDINGS, to be published and distributed to the membership as soon as possible after the annual meeting; and a monthly BULLETIN, to be published from September to June, inclusive.

9. AMENDMENTS—This Constitution may be amended by a two-thirds vote of those present at any regular meeting of the Society provided the amendment shall have been approved by the Council by letter ballot by a two-thirds vote of the members voting.

BY-LAWS OF THE SOCIETY AND RULES GOVERNING THE COUNCIL.

First. The Officers of the Society shall constitute a Committee to arrange for the annual meeting and to prepare a program for the same.

Second. The President, the Secretary and the Treasurer shall constitute an Executive Committee which shall have charge of all matters relating to the expenditure of money of the Society, the making of appropriations to Committees and for other purposes, the making of contracts, the approval of bills, and also during the period between the meetings of the Council shall have charge of other business affairs of the Society.

Third. Expenditures of money may be made only in accordance with a definite appropriation or by direct vote of the Executive Committee.

Fourth. Reading of papers shall be limited to fifteen minutes each or to such other time as may be designated by the Program Committee, and abstracts of papers of about three hundred words shall be printed when practicable, and distributed in advance to the members.

Fifth. The time occupied by each person in the discussion of any paper shall not exceed five minutes.

Sixth. The President, the Secretary and the retiring Secretary shall constitute a Publication Committee, of which the Secretary shall be Chairman, to edit and have charge of the publication of the monthly BULLETIN and the PROCEEDINGS of the Society, except the volume of Proceedings of the last convention, which shall be edited by the retiring

Secretary. If at any time there be no retiring Secretary the retiring President shall be a member of this Committee.

Seventh. The Officers, members of the Council and members of the local Convention Committee shall constitute a Committee on Sociability to introduce members and guests to each other at the annual meetings and in general to promote a spirit of good fellowship.

Eighth. The subscription price of the BULLETIN shall be Two Dollars per year, payable in advance.

Ninth. Additions or amendments may be made to these By-Laws at any regular meeting of the Society, on the recommendation of the Council by a two-thirds affirmative vote of the Council and of the Society.

PUBLICATIONS.

The publications of the Society can be obtained from the Secretary. The current issues are distributed gratuitously to members in good standing, one copy of each to each individual member and three to each institutional member. The price of the bound volumes of the PROCEEDINGS of former years is $2.50 to non-members, $2.00 to public libraries, and $1.50 to members for their own libraries.

The BULLETIN is issued monthly from September to June. The price to non-members is $2.00 per year. Libraries may order the BULLETIN and the PROCEEDINGS at $4.00 per year.

Reprints of papers may be ordered when the papers are in type form, and either with or without covers, at a price depending upon the number of pages and copies desired.

PAST OFFICERS

Special Committee for Division E, Engineering Education, World's Engineering Congress, 1893.

IRA O. BAKER, Chairman,
WM. R. HOAG, Secretary,
MORTIMER E. COOLEY,
HENRY T. EDDY, Vice-Chairman,
C. FRANK ALLEN, Sec'y, *pro tem.*,
SAMUEL W. STRATTON,
STORM BULL.*

PRESIDENTS

DE VOLSON WOOD,* 1893–4,
GEORGE F. SWAIN, 1894–5,
MANSFIELD MERRIMAN, 1895–6,
HENRY T. EDDY, 1896–7,
JOHN B. JOHNSON,* 1897–8,
THOS. C. MENDENHALL, 1898–9.
IRA O. BAKER, 1899–1900,
FRANK O. MARVIN,* 1900–1,
ROBERT FLETCHER, 1901–2,
CALVIN M. WOODWARD,* 1902–3,
C. FRANK ALLEN, 1903–4,
FRED W. McNAIR, 1904–5,
CHARLES L. CRANDALL,* 1905–6,
DUGALD C. JACKSON, 1906–7,
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ARTHUR N. TALBOT, 1910–11,
WM. G. RAYMOND, 1911–12,
WM. T. MAGRUDER, 1912–13,
G. C. ANTHONY, 1913–14,
ANSON MARSTON, 1914–15,
HENRY S. JACOBY, 1915–16,
GEORGE R. CHATBURN, 1916–17,
MILO S. KETCHUM, 1917–18,
JOHN F. HAYFORD, 1918–19,
A. M. GREENE, JR., 1919–20,
MORTIMER E. COOLEY, 1920–21.

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CHARLES L. CRANDALL,* JAMES C. NAGLE, 1903–4,
CLEMENT R. JONES, ELWOOD MEAD, 1904–5,
WILLIAM T. MAGRUDER, JOHN P. JACKSON, 1905–6,

* Deceased.

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MILO S. KETCHUM, WILLIAM KENT, 1910–11,
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H. S. JACOBY, D. C. HUMPHREYS, 1913–14,
H. H. NORRIS, C. RUSS RICHARDS, 1914–15,
G. R. CHATBURN, F. H. CONSTANT, 1915–16,
HOLLIS GODFREY, WM. M. THORNTON, 1916–17,
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JOHN T. FAIG, E. R. MAURER, 1918–19,
A. A. POTTER, F. P. MCKIBBEN, 1919–20,
T. U. TAYLOR, H. S. EVANS, 1920–21.

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JOHN J. FLATHER, 1895–9,
CLARENCE A. WALDO, 1899–1902,
ARTHUR N. TALBOT, 1902–4,
FRED. P. SPALDING, 1904–6,
ANSON MARSTON, 1906–7.

SECRETARIES

JOHN B. JOHNSON,* 1893–5,
C. FRANK ALLEN, 1895–7,
ALBERT KINGSBURY, 1897–9,
EDGAR MARBURG,* 1899–1900,
HENRY S. JACOBY, 1900–2,
CLARENCE A. WALDO, 1902–4,
MILO S. KETCHUM, 1904–6,
WILLIAM T. MAGRUDER, 1906–7,
ARTHUR L. WILLISTON, 1907–9,
HENRY H. NORRIS, 1909–14.

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M. A. Howe,
P. C. Ricketts,
C. M. Woodward.*
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Terms of Office Expired in 1902.

Brown Ayres,
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J. M. Porter,

Terms of Office Expired in 1903.

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N. C. Ricker,
A. L. Williston,

Terms of Office Expired in 1904.

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L. S. Randolph.
D. C. Humphreys,
L. E. Reber,

Terms of Office Expired in 1905.

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H. S. Jacoby,
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Elwood Mead,
Edward Orton, Jr.
W. M. Towle,
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Frederick P. Spalding,
Charles S. Howe,
Henry W. Spangler,*
Herman K. Vedder.
Walter M. Riggs,
Fred. E. Turneaure,

---

* Deceased.

MEMBERS OF PREVIOUS COUNCILS.

Terms of Office Expired in 1907.

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H. P. Talbot,
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Terms of Office Expired in 1909.

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Terms of Office Expired in 1910.

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Mortimer E. Cooley,
Walter B. Russell,
William Kent,
Harold B. Smith.
William S. Franklin,
Charles F. Scott,

Terms of Office Expired in 1911.

Lester P. Breckenridge,
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Lewis J. Johnson,
William T. Magruder,
Clarence A. Waldo.
William G. Raymond,
Herman Schneider,

Terms of Office Expired in 1912.

Frank H. Constant,
Frederick A. Goetze,
H. Wade Hibbard,
John H. Leete,
Chas. Russ Richards.
Edw. R. Maurer,
John C. Ostrup,

Terms of Office Expired in 1913.

C. H. Benjamin,
G. W. Bissell,
E. E. Brydone-Jack,
W. H. P. Creighton,
H. W. Tyler.
J. F. Hayford,
C. Russ Richards,

Terms of Office Expired in 1914.

J. E. Boyd,
C. H. Crouch,
F. L. Emory,
C. E. Magnusson,
H. H. Stoek.
J. A. L. Waddell,
A. J. Wood,

Terms of Office Expired in 1915.

F. L. Bishop,
G. R. Chatburn,
O. P. Hood,
G. D. Shepardson,
F. P. McKibben.
W. B. Snow,
J. C. Tracy,

Terms of Office Expired in 1916.

J. F. Hayford,
M. S. Ketchum,
A. S. Langsdorf,
F. P. Spalding,
H. W. Tyler.
P. F. Walker,
S. M. Woodward,

* Deceased.

MEMBERS OF PREVIOUS COUNCILS.

Terms of Office Expired in 1917.

R. H. Fernald,
A. H. Fuller,
A. M. Greene, Jr.,
E. V. Huntington,
V. Karapetoff,
D. C. Miller,
W. M. Riggs.

Terms of Office Expired in 1918.

L. P. Breckenridge,
C. L. Cory,
C. H. Crouch,
O. P. Hood,
J. B. Whitehead.
F. P. McKibben,
G. D. Shepardson,

Terms of Office Expired in 1919.

A. H. Blanchard,
W. H. Browne, Jr.,
T. E. French,
R. W. Gay,
A. A. Potter.
F. G. Higbee,
E. J. McCaustland,

Terms of Office Expired in 1920.

T. U. Taylor,
K. G. Matheson,
C. J. Tilden,
C. F. Scott,
L. M. Hoskins.
Frank Aydelotte,
W. E. Mott,

Terms of Office Expired in 1921.

Frederic Bass,
C. Francis Harding,
O. A. Leutwiler,
C. R. Mann,
W. J. Risley.
J. Raleigh Nelson,
F. L. Pryor,

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* Deceased.